

**CAGED BIVALVE STUDY
SAMPLING AND ANALYSIS REPORT**

**POTLATCH NPDES PERMIT RENEWAL
COMPLIANCE MONITORING**

Prepared for
Potlatch Corporation
Lewiston, Idaho

Prepared by
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1423 Third Avenue, Suite 300
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January 2008



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1 INTRODUCTION

This section provides a brief background of the purpose for conducting bivalve tissue sampling and analysis, describes the studies that were conducted, and outlines the contents of the remainder of this report.

1.1 Background

In accordance with renewal of a National Pollutant Discharge Elimination System (NPDES) Permit granting Authorization to Discharge (EPA 2005), Potlatch Corporation was required to conduct monitoring studies in the vicinity and downstream of Outfall 001 associated with Potlatch's pulp and paper mill (Mill) in Lewiston, Idaho (Figure 1). The goal of the monitoring program was to support the effort to characterize the potential effects of discharges from Potlatch's mill to the Clearwater and Snake Rivers on endangered and listed species and the environment. One component of the monitoring requirements was to measure the concentrations of compounds potentially present in the Mill effluent using freshwater bivalves located downstream of the Mill's effluent discharge location in the Lower Granite Reservoir (LGR). This information would be combined with data from other related investigations to evaluate potential impacts of discharges from the Potlatch Mill on listed species.

Per direction in the permit, the caged bivalve study was performed in accordance with the Endangered Species Act (ESA) Tier 1 Monitoring Plan approved by National Oceanic and Atmospheric Administration (NOAA) Fisheries and U.S. Fish and Wildlife Service (USFWS; EPA 2004). As part of the monitoring program, a Quality Assurance Project Plan (QAPP) was prepared, outlining the approach and details for the tissue collection effort (AMEC and Anchor 2005). In accordance with the QAPP (AMEC and Anchor 2005), caged bivalve tissue was sampled from locations upstream and downstream of the Mill's outfall (Figure 2).

1.2 Document Organization and Focus

Section 2 describes the field effort for the collection and analysis of caged bivalve tissue. This section is meant to be a summary rather than a detailed account of the field activities. Section 3 presents aspects related to chemical analysis of samples and data validation. Section 4 summarizes the analytical results. Section 5 is a brief, overall summary of the field activities and analytical results. Section 6 contains references.

The focus of this report is on the data, data quality, and comparisons to criteria determined from the analytical results. For additional detail on field sampling information, permit requirements, or analytical methodologies, reference will be made to the QAPP (AMEC and Anchor 2005).

2 CAGED BIVALVE TISSUE COLLECTION

This section provides an overview of information specific to the collection and handling of caged bivalve tissue as required by the Mill's permit (EPA 2005). Field activities associated with bivalve tissue collection and handling generally proceeded in accordance with guidance provided in the QAPP (AMEC and Anchor 2005), which may be consulted for full details of the tissue sampling and handling activities.

2.1 Synopsis of Field Activities

Locations for the caged bivalve study coincided with the sample stations for the receiving water and sediment studies and provided complete spatial coverage of the study area (Figure 2). Bivalves were placed at two upstream reference locations and at five locations between the Potlatch Mill discharge and the Lower Granite Dam.

The test species, *Corbicula fluminea*, were purchased from a collection facility on the Sacramento River in California and air freighted under oxygen to Lewiston, Idaho. Once received, the clams were allowed to acclimate in Snake River water for 5 days in flow-through tanks. Water temperature, dissolved oxygen (DO), and ammonia were monitored during the acclimation period.

After the acclimation period, clam health was evaluated, and the healthy individuals were randomly assigned to cages. Each clam was weighed, measured, and then secured in an oyster cultch bag. In order to track an individual clam throughout the study, cages were designed in a grid pattern, with three sides, five rows, and four positions. Therefore a clam in Cage 1, side 1, row A, and position 2 was labeled C1-1-A-2. Once a station's clam cage was assembled, the cage was submerged in river water and taken to the test location for deployment. Two cages were deployed at each location, with the exception of LGP-01, which had two extra cages deployed for additional duplicate and matrix spike/matrix spike duplicate (MS/MSD) samples.

Cages were secured 1 meter off the river bottom with a concrete weight. Tow lines and a hydro-acoustic release were used to collect cages after the 1-month deployment period.

After the clam cages at test locations were deployed, a baseline batch of clams from the remaining acclimated group were measured and sent to the laboratory for analytical testing. Clams were collected after 30 days at the test locations. Clams were individually weighed, measured, and opened. Two composite samples were procured from each location.

Bivalve cages were deployed over 4 days beginning April 11, 2007 and ending April 15, 2007 and were collected beginning May 10, 2007 and ending May 15, 2007. Tissue collection resulted in a total of 10 composite samples from below the Mill's outfall, one field duplicate composite, two baseline composites collected prior to deployment, and three reference site composites from upstream locations. The second Clearwater Reference site composite was not collected because the cage was lost. Samples were shipped to the laboratories following compositing and arrived at the laboratories within temperature requirements.

Field sampling was conducted from a jet boat equipped with an onboard Differential Global Positioning System (DGPS), which provided navigation support for finding sampling locations and recording the actual locations occupied. Baseline measurements, cage deployment, and cage retrieval occurred as per the QAPP (AMEC and Anchor 2005) except as specified below in Section 2.2, Deviations from the QAPP (AMEC and Anchor 2005). For transport to the laboratory, sample coolers were packed with ice to ensure maintenance of cold temperatures. Coolers were shipped to the laboratories under standard chain-of-custody procedures.

2.2 Sampling Deviations from the QAPP

There were minor deviations from the QAPP (AMEC and Anchor 2005) during sampling, as follows:

- The QAPP (AMEC and Anchor 2005) refers to freshwater mussels as the test organism, whereas the Monitoring Plan suggested the Asiatic clam *Corbicula fluminea* (Bivalvia) for testing and commented that freshwater mussels were not common in the Lower Granite pool. The Asiatic clam was therefore selected as the test species.
- A reconnaissance field effort was conducted in fall 2006 to identify locations at which to collect clams for testing. Because very few clams were observed in the river reaches to be studied, clams for the study were acquired from a commercial source

instead of collected on site. Both the USFWS and NOAA Fisheries agreed with this approach (Davidson, pers. comm. 2007; Mebane, pers. comm. 2007).

- Based on the tissue baseline analytical results, it was determined that the clam tissue weight was insufficient for collection of three composite samples from each station. Because two composite samples were still within compliance with the ASTM method (ASTM E-2122 [2001]), EPA agreed with the sample design modification.

3 CAGED BIVALVE TISSUE SAMPLE ANALYSIS

Caged bivalve tissue sample analysis was conducted in accordance with Appendix F of the QAPP (AMEC and Anchor 2005). Guidance included specification of methods, method detection limits, and applicable quality assurance/quality control (QA/QC) measures. Complete details are included in the QAPP (AMEC and Anchor 2005).

3.1 Sample Analysis

Chemical/physical testing was conducted on the bivalve tissue samples according to the Potlatch NPDES permit (#ID-000116-3) requirements. A total of 10 field sample composites collected from locations downstream of the Mill outfall, one field duplicate, three upstream reference station composites, and two baseline composites were analyzed in this study.

Analytical Perspectives (AP) was responsible for the dioxin/furan analysis, while Columbia Analytical Services (CAS) provided the results for the resin acids, retene, beta-sitosterol, and chlorophenol analyses. Both laboratories are accredited under the National Environmental Laboratories Accreditation Program and Washington State Department of Ecology.

Appendix A contains electronic files for chain-of-custody forms and all laboratory data reports.

Prior to the analysis of the samples, the laboratories calculated method detection limits for each analyte of interest, where applicable. Method detection limits were confirmed to be below the toxicity benchmark criteria for tissue specified in Table 6 of Attachment A of the Potlatch NPDES permit.

3.2 Data Validation

Data validation was performed by Laboratory Data Consultants, Inc. (LDC), located in Carlsbad, California. A full data validation was performed in accordance with guidance provided in the following documents:

- *Quality Assurance Project Plan for Endangered Species Act Monitoring and NPDES Permit Compliance Monitoring* (AMEC and Anchor 2005)
- *EPA Functional Guidelines for the Validation of Organic and Inorganic Data*, October 2004 and 1999
- *EPA Functional Guidelines for the Validation of Polychlorinated Dibenzodioxin (PCDD) and Polychlorinated Dibenzofuran (PCDF) Data*, 1996

- *EPA Functional Guidelines for the Validation of Inorganic Analyses, October 2004.*

Each data package was reviewed initially against chain-of-custody forms to ensure that the requested analyses were performed. Requirements for each analytical parameter were reviewed to ensure the technical holding time was met for both extraction and analysis. Results were reviewed to assess target compound identification, compound quantification and calculations, and achievement of compound quantitation limits. Field blanks were reviewed for possible contamination issues. All initial and continuing calibrations were reviewed for method compliance. All surrogates, method blanks, internal standards, instrument performance checks, method blank(s), matrix spikes, laboratory control samples, standard reference materials (SRMs) (dioxin/furan analysis), and system performance checks were performed at the required frequency and within specified method criteria and QAPP (AMEC and Anchor 2005) control limits. Field duplicates were checked for consistency and compliance with relative percent difference (RPD) criteria.

Any omitted or discrepant data were resubmitted to the respective laboratory for clarification and re-analysis, if needed. Any sample or standard data not meeting the guidelines in the documents listed above were flagged and qualified accordingly. All discrepancies were tabulated and described in the validation reports. Copies of the qualified sample data sheets with flags are also contained in the validation reports. Appendix B contains all data validation reports.

All data presented in this report were considered useable as qualified from the validation reports. Tables 2 and 3 contain data with the appropriate data validation qualifiers, where applicable. Copies of all laboratory analytical reports can be found in Appendix A.

3.3 Analysis Deviations from the QAPP

The QAPP (AMEC and Anchor 2005) identified the laboratory to be used in the bivalve tissue analyses as AXYS Laboratory (AXYS). In 2006, Analytical Perspectives (AP) replaced AXYS as the dioxin/furan laboratory and CAS replaced AXYS for all other analyses. The change from AXYS to CAS resulted in a change to the analyte list as several analytes identified in the QAPP (AMEC and Anchor 2005) for resin acids and phytosterols are not reported in the current 2007 results. The change resulted in four resin acids being excluded

(sandaracopimamic acid, palustric acid, neobietic acid, and total 12/14 chlorodehydroabietic acid). Three phytosterols were also excluded in the current analyte list (campesterol, stigstanol, and stigmasterol). At the time of the laboratory switch in 2006, the CAS laboratory did not have current method detection limits (MDLs) for the missing analytes and had never analyzed the analytes before. EPA was notified of the switch in laboratories, as well as the change in analyte lists, in 2006.

Two data reports were generated by AP for the dioxin/furan analysis of the bivalve samples. The data was reported under AP reports P7746 and P7897. There were no deviations noted for these analyses. LDC, the validation firm, noted in their narrative that the compound quantitation and contract required control limits (CRQLs) for 2,3,7,8-TCDF were not reported using second column confirmation as required by the analytical method. The AP laboratory report indicates that they use a modified DB-5 MS column, where each calibration sequence is evaluated by their chemist to show that the method criteria for resolution is met for both 2,3,7,8-TCDD and 2,3,7,8-TCDF. For Method 1613 samples, this evaluation is an integral part of AP's ongoing precision and recovery (OPR) analysis. All 17 specific 2,3,7,8-isomers and their close eluters for TCDD and TCDF can be resolved in a single analysis. As method 1613 allows for the use of alternative columns that meet the resolution requirements as a means to forgo the second column confirmation, this requirement was met by AP's analytical procedures and the data were reported without qualification.

Two data reports were also generated for the bivalve analyses by CAS. The CAS data reports are identified as K0703138 and K0704236. The following deviations were noted:

- Phenols
 - The QAPP specified a practical quantitation limit (PQL) of 1 microgram per kilogram ($\mu\text{g}/\text{kg}$) for the chlorinated phenols. The laboratory reported the data at a raised reporting limit of 30 $\mu\text{g}/\text{kg}$.
 - Continuing calibration percent recovery (%R) was outside method criteria high for pentachlorophenol. All detectable results were "J" qualified to indicate the values reported are estimated. Sixteen samples were impacted.
 - Four compounds in the laboratory control samples (LCS) were below the QAPP control criteria for %R. The compounds were 2,3,4,6-tetrachlorophenol, 4,5,6-

- trichloroguaiacol, 3,4,5-trichlorocatechol, and tetrachlorocatechol. All samples in the analytical batches associated with these LCSs were qualified as estimated.
- Two internal standards were outside %R method criteria low (tetrachlorocatechol-13C6 and pentachlorophenol-13C6. Sixteen samples were impacted and have pentachlorophenol and tetrachlorocatechol estimated with the "J" qualifier.
 - Beta-sitosterol
 - The initial calibration relative response factor (RRF) for beta-sitosterol was below the method criteria of greater than 0.05. Sixteen samples were qualified as estimated.
 - The continuing calibration RRF for beta-sitosterol was below the method criteria of greater than 0.05. Sixteen samples were impacted and qualified as estimated.
 - Beta-sitosterol was detected in the method blanks at 20 and 29 µg/kg. This analyte was detected in all but one sample of the associated samples at greater than ten times this concentration. Sample SR-REF-CB-1 reporting limit was raised to 13000 U based on this deviation.
 - The %R in the LCS for beta-sitosterol was outside the QAPP control criteria. Sixteen samples were qualified as estimated.
 - Resin acids, Fatty acids, and Retene
 - The LCS %R for abietic acid was below the QAPP-specified control criteria. The associated sixteen samples were qualified as estimated.
 - The matrix spike/matrix spike duplicate (MS/MSD) %R for isopimaric acid and 9,10-dichlorostearic acid were above the QAPP-specified control criteria. Only the sample used for matrix spiking was impacted.
 - Isopimaric acid showed matrix interference in four samples. The chromatogram showed the presence of non-target background analytes that hindered adequate resolution of the target analytes. The presence of the background components prevented accurate quantitation of the analyte and resulted in raised reporting limits for the analyte. The analyte was qualified as estimated based on this matrix interference.

4 ANALYTICAL RESULTS

Table 1 presents the weight and measurement data for the clams. Clam shell lengths and weights did not increase significantly over the study period. On average, clam weight increased by 0.1 gram and clam length increased by 0.4 inches.

Table 2 presents a summary of the chemical and conventional analytical results reported on a wet-weight basis. The permit documents did not present benchmark criteria for the compounds analyzed in the bivalve study. A comparison between the baseline beginning-of-test (BOT) composites with the field sample composites was made to estimate the level of exposure to analytes of concern. The BOT samples were sent to the laboratory directly after the acclimation period and were used to determine what types of compounds were inherent in the tissue prior to site environmental influence. Table 2 shows that the concentrations of analytes detected in the BOT composites were consistent with those detected in the field sample composites.

Toxicity equivalency factors (TEFs) were calculated for all dioxin/furan congeners. The total concentration for each dioxin or furan congener detected in each sample was multiplied by its TEF using the World Health Organization (WHO; Van den Berg et al 1998) value. The results for each congener were expressed in terms of 2,3,7,8-TCDD equivalents (TEQs). A sum of the individual congener TEQs was calculated for each sample to determine the TEQ concentration for that sample. In the verification step (database calculation versus manual calculations were compared to the laboratories calculation), a discrepancy was noted in the TEF reported in permit ID000116-3 Attachment A (page A5-12) with WHO reported TEFs. The discrepancies were:

<u>Congener</u>	<u>Permit TEF</u>	<u>WHO TEF</u>
1,2,3,4,7,8-HxCDD	0.5	0.1
1,2,3,6,7,8-HxCDD	0.01	0.1
1,2,3,7,8,9-HxCDD	0.01	0.1
1,2,3,4,6,7,8-HpCDD	0.001	0.01

All calculations were made using the WHO TEF values.

Table 3 depicts the detected results from this study, and Table 4 presents a statistical summary of all results on an analyte-by-analyte basis. The majority of compounds analyzed were non-detect in the bivalve tissue; only 131 of 688 analytes were detected in the bivalve tissue. Of the analytes detected, 32 of the 131 detected results were attributed to linoleic acid and oleic acid/linolenic acid values. Oleic acid is an unsaturated omega-9 fatty acid commonly found in animal tissue (lipids). Linolenic acid is an omega-3 fatty acid and is an essential fatty acid found in fish oils. Linoleic acid is an unsaturated omega-6 fatty acid derived from fish oils and fats. An additional 32 of the 131 detected results consisted of the lipid and total solids values. Beta-sitosterol was detected in 15 of the 16 samples. A previous study (see Duncan et al., 1987) found the main components in the *C. flumine* main neutral lipids to consist of sterols and triacylglycerols. The relative percentage of beta-sitosterol found in *C. flumine* was reported as 10.9 percent in this study. The range of beta-sitosterol found in the bivalves from the Snake and Clearwater Rivers was found to be 1.6 to 4.0 percent. The Snake River reference sample SR-REF-CB-1 (less than 1.3 percent) was the only sample that did not contain beta-sitosterol. Based on the percent lipids for this sample, this may be an anomaly due to laboratory error.

Thus, 79 of the 131 (60.3 percent) of the detected compounds consisted of lipids, total solids, beta-sitosterol, and fatty acid analytes, which are inherent in bivalve tissue. For further information, Table 4 may be consulted for information regarding frequencies of detection; method detection and reporting limits; and maximum, minimum, and mean concentrations for the individual categories of compounds.

5 SUMMARY

In accordance with renewal of a NPDES Permit granting Authorization to Discharge (EPA 2005), Potlatch Corporation was required to conduct caged bivalve tissue monitoring studies in the vicinity and downstream of Outfall 001 associated with Potlatch's Mill in Lewiston, Idaho. The goal of the monitoring program was to support the effort to characterize the potential effects of discharges from Potlatch's mill to the Clearwater and Snake Rivers on endangered and listed species and the environment.

This report describes work conducted in conjunction with the monitoring requirements to collect and analyze caged bivalve tissue samples from at two upstream reference locations and at five locations distributed between the Potlatch Mill discharge and the Lower Granite Dam. In April and May 2007, Anchor performed the caged bivalve deployment and retrieval, resulting in two replicates per location, with the exception of the Clearwater River reference station, for a total of 16 samples. Composite samples were analyzed individually for chemical compounds as outlined in the QAPP (AMEC and Anchor 2005). Results of chemical analysis are presented in this report.

There were no toxicity benchmarks for bivalves included in the permit. A majority of the analytes that were detected in the bivalves from sample stations downstream of the Potlatch diffuser were also detected at the reference stations on both the Clearwater and Snake Rivers. A comparison of tissue concentrations at the reference stations, from the baseline study, and the downstream sample stations showed that all tended to be very similar in the types and concentrations of analytes detected.

6 REFERENCES

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- Mebane, C. 2007. Personal communication (phone call) between Chris Mebane of NMFS and Shawn Hinz of Anchor Environmental L.L.C. December 2006.
- Van den Berg, Martin, et. al. 1998. "Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for Humans and Wildlife." Environmental Health Perspectives. Volume 106, Number 12, December 1998.

TABLES

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
SR-Ref	1	1	A1	SR-Ref_1_1_A1	4/11/2007	25.2	6	5/10/2007	25.4	6	0.2	0
SR-Ref	1	1	A2	SR-Ref_1_1_A2	4/11/2007	26.4	6	5/10/2007	26.4	6	0.0	0
SR-Ref	1	1	A3	SR-Ref_1_1_A3	4/11/2007	25.4	4	5/10/2007	25.4	4	0.0	0
SR-Ref	1	1	A4	SR-Ref_1_1_A4	4/11/2007	27.0	6	5/10/2007	27.0	6	0.0	0
SR-Ref	1	1	A5	SR-Ref_1_1_A5	4/11/2007	28.9	8	5/10/2007	28.9	8	0.0	0
SR-Ref	1	1	B1	SR-Ref_1_1_B1	4/11/2007	25.1	4	5/10/2007	25.1	4	0.0	0
SR-Ref	1	1	B2	SR-Ref_1_1_B2	4/11/2007	23.0	4	5/10/2007	23.1	4	0.1	0
SR-Ref	1	1	B3	SR-Ref_1_1_B3	4/11/2007	22.1	4	5/10/2007	22.1	6	0.0	2
SR-Ref	1	1	B4	SR-Ref_1_1_B4	4/11/2007	26.3	8	5/10/2007	26.3	6	0.0	-2
SR-Ref	1	1	B5	SR-Ref_1_1_B5	4/11/2007	26.5	6	5/10/2007	26.5	6	0.0	0
SR-Ref	1	1	C1	SR-Ref_1_1_C1	4/11/2007	26.1	6	5/10/2007	25.8	8	-0.3	2
SR-Ref	1	1	C2	SR-Ref_1_1_C2	4/11/2007	25.2	6	5/10/2007	25.2	6	0.0	0
SR-Ref	1	1	C3	SR-Ref_1_1_C3	4/11/2007	30.8	12	5/10/2007	30.8	10	0.0	-2
SR-Ref	1	1	C4	SR-Ref_1_1_C4	4/11/2007	25.7	6	5/10/2007	25.7	6	0.0	0
SR-Ref	1	1	C5	SR-Ref_1_1_C5	4/11/2007	26.4	6	5/10/2007	26.4	6	0.0	0
SR-Ref	1	1	D1	SR-Ref_1_1_D1	4/11/2007	25.4	4	5/10/2007	25.4	6	0.0	2
SR-Ref	1	1	D2	SR-Ref_1_1_D2	4/11/2007	28.0	6	5/10/2007	28.0	6	0.0	0
SR-Ref	1	1	D3	SR-Ref_1_1_D3	4/11/2007	25.0	4	5/10/2007	25.0	4	0.0	0
SR-Ref	1	1	D4	SR-Ref_1_1_D4	4/11/2007	23.1	4	5/10/2007	23.1	6	0.0	2
SR-Ref	1	1	D5	SR-Ref_1_1_D5	4/11/2007	23.2	4	5/10/2007	23.2	4	0.0	0
SR-Ref	1	2	E1	SR-Ref_1_2_E1	4/11/2007	28.1	8	5/10/2007	28.5	8	0.4	0
SR-Ref	1	2	E2	SR-Ref_1_2_E2	4/11/2007	27.0	6	5/10/2007	27.0	4	0.0	-2
SR-Ref	1	2	E3	SR-Ref_1_2_E3	4/11/2007	26.2	6	5/10/2007	26.2	6	0.0	0
SR-Ref	1	2	E4	SR-Ref_1_2_E4	4/11/2007	26.8	6	5/10/2007	26.8	6	0.0	0
SR-Ref	1	2	E5	SR-Ref_1_2_E5	4/11/2007	28.6	8	5/10/2007	28.6	8	0.0	0
SR-Ref	1	2	F1	SR-Ref_1_2_F1	4/11/2007	26.0	6	5/10/2007	26.0	4	0.0	-2
SR-Ref	1	2	F2	SR-Ref_1_2_F2	4/11/2007	26.3	4	5/10/2007	26.3	6	0.0	2
SR-Ref	1	2	F3	SR-Ref_1_2_F3	4/11/2007	25.8	8	5/10/2007	25.8	6	0.0	-2
SR-Ref	1	2	F4	SR-Ref_1_2_F4	4/11/2007	28.7	6	5/10/2007	28.7	6	0.0	0
SR-Ref	1	2	F5	SR-Ref_1_2_F5	4/11/2007	28.6	8	5/10/2007	28.6	4	0.0	-4
SR-Ref	1	2	G1	SR-Ref_1_2_G1	4/11/2007	27.0	6	5/10/2007	27.0	6	0.0	0
SR-Ref	1	2	G2	SR-Ref_1_2_G2	4/11/2007	27.4	8	5/10/2007	27.4	6	0.0	-2
SR-Ref	1	2	G3	SR-Ref_1_2_G3	4/11/2007	32.1	10	5/10/2007	32.1	10	0.0	0
SR-Ref	1	2	G4	SR-Ref_1_2_G4	4/11/2007	28.7	8	5/10/2007	28.7	10	0.0	2
SR-Ref	1	2	G5	SR-Ref_1_2_G5	4/11/2007	26.1	6	5/10/2007	26.1	8	0.0	2
SR-Ref	1	2	H1	SR-Ref_1_2_H1	4/11/2007	29.3	8	5/10/2007	29.3	8	0.0	0
SR-Ref	1	2	H2	SR-Ref_1_2_H2	4/11/2007	28.2	8	5/10/2007	28.2	8	0.0	0
SR-Ref	1	2	H3	SR-Ref_1_2_H3	4/11/2007	26.5	6	5/10/2007	26.5	4	0.0	-2
SR-Ref	1	2	H4	SR-Ref_1_2_H4	4/11/2007	27.0	6	5/10/2007	27.0	6	0.0	0
SR-Ref	1	2	H5	SR-Ref_1_2_H5	4/11/2007	27.1	6	5/10/2007	27.1	6	0.0	0
SR-Ref	1	3	I1	SR-Ref_1_3_I1	4/11/2007	25.6	6	5/10/2007	25.6	6	0.0	0
SR-Ref	1	3	I2	SR-Ref_1_3_I2	4/11/2007	24.0	4	5/10/2007	24.0	4	0.0	0
SR-Ref	1	3	I3	SR-Ref_1_3_I3	4/11/2007	29.0	10	5/10/2007	29.0	10	0.0	0
SR-Ref	1	3	I4	SR-Ref_1_3_I4	4/11/2007	29.0	8	5/10/2007	29.0	6	0.0	-2
SR-Ref	1	3	I5	SR-Ref_1_3_I5	4/11/2007	27.2	6	5/10/2007	27.2	6	0.0	0
SR-Ref	1	3	J1	SR-Ref_1_3_J1	4/11/2007	26.0	6	5/10/2007	26.0	6	0.0	0
SR-Ref	1	3	J2	SR-Ref_1_3_J2	4/11/2007	29.2	8	5/10/2007	29.2	6	0.0	-2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
SR-Ref	1	3	J3	SR-Ref_1_3_J3	4/11/2007	27.8	8	5/10/2007	27.8	6	0.0	-2
SR-Ref	1	3	J4	SR-Ref_1_3_J4	4/11/2007	31.7	14	5/10/2007	31.7	12	0.0	-2
SR-Ref	1	3	J5	SR-Ref_1_3_J5	4/11/2007	29.0	8	5/10/2007	29.0	6	0.0	-2
SR-Ref	1	3	K1	SR-Ref_1_3_K1	4/11/2007	27.5	6	5/10/2007	27.5	6	0.0	0
SR-Ref	1	3	K2	SR-Ref_1_3_K2	4/11/2007	29.6	8	5/10/2007	29.6	6	0.0	-2
SR-Ref	1	3	K3	SR-Ref_1_3_K3	4/11/2007	30.0	6	5/10/2007	32.2	8	2.2	2
SR-Ref	1	3	K4	SR-Ref_1_3_K4	4/11/2007	26.5	6	5/10/2007	26.5	6	0.0	0
SR-Ref	1	3	K5	SR-Ref_1_3_K5	4/11/2007	27.5	6	5/10/2007	27.5	8	0.0	2
SR-Ref	1	3	L1	SR-Ref_1_3_L1	4/11/2007	25.2	6	5/10/2007	25.2	6	0.0	0
SR-Ref	1	3	L2	SR-Ref_1_3_L2	4/11/2007	29.2	8	5/10/2007	29.2	6	0.0	-2
SR-Ref	1	3	L3	SR-Ref_1_3_L3	4/11/2007	27.6	6	5/10/2007	27.6	8	0.0	2
SR-Ref	1	3	L4	SR-Ref_1_3_L4	4/11/2007	24.8	4	5/10/2007	24.8	6	0.0	2
SR-Ref	1	3	L5	SR-Ref_1_3_L5	4/11/2007	32.5	12	5/10/2007	32.5	12	0.0	0
SR-Ref	2	1	A1	SR-Ref_2_1_A1	4/11/2007	25.7	6	5/10/2007	25.7	6	0.0	0
SR-Ref	2	1	A2	SR-Ref_2_1_A2	4/11/2007	24.6	4	5/10/2007	24.6	6	0.0	2
SR-Ref	2	1	A3	SR-Ref_2_1_A3	4/11/2007	24.9	4	5/10/2007	24.9	4	0.0	0
SR-Ref	2	1	A4	SR-Ref_2_1_A4	4/11/2007	25.3	6	5/10/2007	25.3	6	0.0	0
SR-Ref	2	1	A5	SR-Ref_2_1_A5	4/11/2007	27.2	4	5/10/2007	28.3	6	1.1	2
SR-Ref	2	1	B1	SR-Ref_2_1_B1	4/11/2007	25.5	4	5/10/2007	25.5	4	0.0	0
SR-Ref	2	1	B2	SR-Ref_2_1_B2	4/11/2007	24.5	6	5/10/2007	24.9	6	0.4	0
SR-Ref	2	1	B3	SR-Ref_2_1_B3	4/11/2007	28.6	5	5/10/2007	28.6	8	0.0	3
SR-Ref	2	1	B4	SR-Ref_2_1_B4	4/11/2007	27.2	8	5/10/2007	27.2	8	0.0	0
SR-Ref	2	1	B5	SR-Ref_2_1_B5	4/11/2007	25.8	6	5/10/2007	25.8	6	0.0	0
SR-Ref	2	1	C1	SR-Ref_2_1_C1	4/11/2007	25.0	6	5/10/2007	24.7	6	-0.3	0
SR-Ref	2	1	C2	SR-Ref_2_1_C2	4/11/2007	28.1	8	5/10/2007	28.1	8	0.0	0
SR-Ref	2	1	C3	SR-Ref_2_1_C3	4/11/2007	27.6	8	5/10/2007	27.6	8	0.0	0
SR-Ref	2	1	C4	SR-Ref_2_1_C4	4/11/2007	28.9	8	5/10/2007	28.9	8	0.0	0
SR-Ref	2	1	C5	SR-Ref_2_1_C5	4/11/2007	27.0	6	5/10/2007	27.8	6	0.8	0
SR-Ref	2	1	D1	SR-Ref_2_1_D1	4/11/2007	25.8	6	5/10/2007	25.8	6	0.0	0
SR-Ref	2	1	D2	SR-Ref_2_1_D2	4/11/2007	28.0	6	5/10/2007	28.0	6	0.0	0
SR-Ref	2	1	D3	SR-Ref_2_1_D3	4/11/2007	27.4	6	5/10/2007	27.4	4	0.0	-2
SR-Ref	2	1	D4	SR-Ref_2_1_D4	4/11/2007	29.0	6	5/10/2007	29.0	8	0.0	2
SR-Ref	2	1	D5	SR-Ref_2_1_D5	4/11/2007	30.1	8	5/10/2007	30.1	8	0.0	0
SR-Ref	2	2	E1	SR-Ref_2_2_E1	4/11/2007	27.2	6	5/10/2007	27.2	8	0.0	2
SR-Ref	2	2	E2	SR-Ref_2_2_E2	4/11/2007	28.8	6	5/10/2007	28.8	6	0.0	0
SR-Ref	2	2	E3	SR-Ref_2_2_E3	4/11/2007	27.8	6	5/10/2007	27.8	6	0.0	0
SR-Ref	2	2	E4	SR-Ref_2_2_E4	4/11/2007	26.8	6	5/10/2007	26.8	6	0.0	0
SR-Ref	2	2	E5	SR-Ref_2_2_E5	4/11/2007	27.7	6	5/10/2007	27.7	6	0.0	0
SR-Ref	2	2	F1	SR-Ref_2_2_F1	4/11/2007	24.3	4	5/10/2007	24.3	4	0.0	0
SR-Ref	2	2	F2	SR-Ref_2_2_F2	4/11/2007	26.2	6	5/10/2007	26.4	6	0.2	0
SR-Ref	2	2	F3	SR-Ref_2_2_F3	4/11/2007	27.3	6	5/10/2007	27.3	6	0.0	0
SR-Ref	2	2	F4	SR-Ref_2_2_F4	4/11/2007	28.6	6	5/10/2007	28.6	8	0.0	2
SR-Ref	2	2	F5	SR-Ref_2_2_F5	4/11/2007	27.8	6	5/10/2007	27.8	6	0.0	0
SR-Ref	2	2	G1	SR-Ref_2_2_G1	4/11/2007	27.3	5	5/10/2007	27.3	6	0.0	1
SR-Ref	2	2	G2	SR-Ref_2_2_G2	4/11/2007	28.2	8	5/10/2007	28.2	6	0.0	-2
SR-Ref	2	2	G3	SR-Ref_2_2_G3	4/11/2007	27.6	8	5/10/2007	27.6	6	0.0	-2
SR-Ref	2	2	G4	SR-Ref_2_2_G4	4/11/2007	27.0	6	5/10/2007	27.0	6	0.0	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
SR-Ref	2	2	G5	SR-Ref_2_2_G5	4/11/2007	25.8	4	5/10/2007	25.8	8	0.0	4
SR-Ref	2	2	H1	SR-Ref_2_2_H1	4/11/2007	25.8	6	5/10/2007	26.8	6	1.0	0
SR-Ref	2	2	H2	SR-Ref_2_2_H2	4/11/2007	26.9	4	5/10/2007	26.9	6	0.0	2
SR-Ref	2	2	H3	SR-Ref_2_2_H3	4/11/2007	28.7	8	5/10/2007	28.7	6	0.0	-2
SR-Ref	2	2	H4	SR-Ref_2_2_H4	4/11/2007	27.1	8	5/10/2007	27.1	6	0.0	-2
SR-Ref	2	2	H5	SR-Ref_2_2_H5	4/11/2007	28.4	8	5/10/2007	28.4	8	0.0	0
SR-Ref	2	3	I1	SR-Ref_2_3_I1	4/11/2007	26.2	8	5/10/2007	26.2	6	0.0	-2
SR-Ref	2	3	I2	SR-Ref_2_3_I2	4/11/2007	25.3	6	5/10/2007	25.3	4	0.0	-2
SR-Ref	2	3	I3	SR-Ref_2_3_I3	4/11/2007	26.3	6	5/10/2007	26.3	6	0.0	0
SR-Ref	2	3	I4	SR-Ref_2_3_I4	4/11/2007	25.4	6	5/10/2007	25.8	6	0.4	0
SR-Ref	2	3	I5	SR-Ref_2_3_I5	4/11/2007	26.5	6	5/10/2007	26.4	6	-0.1	0
SR-Ref	2	3	J1	SR-Ref_2_3_J1	4/11/2007	26.4	6	5/10/2007	26.4	6	0.0	0
SR-Ref	2	3	J2	SR-Ref_2_3_J2	4/11/2007	27.3	6	5/10/2007	27.3	6	0.0	0
SR-Ref	2	3	J3	SR-Ref_2_3_J3	4/11/2007	25.9	6	5/10/2007	25.9	4	0.0	-2
SR-Ref	2	3	J4	SR-Ref_2_3_J4	4/11/2007	28.6	6	5/10/2007	28.6	4	0.0	-2
SR-Ref	2	3	J5	SR-Ref_2_3_J5	4/11/2007	26.4	6	5/10/2007	26.5	4	0.1	-2
SR-Ref	2	3	K1	SR-Ref_2_3_K1	4/11/2007	31.3	10	5/10/2007	32.3	8	1.0	-2
SR-Ref	2	3	K2	SR-Ref_2_3_K2	4/11/2007	26.1	6	5/10/2007	26.6	4	0.5	-2
SR-Ref	2	3	K3	SR-Ref_2_3_K3	4/11/2007	27.2	6	5/10/2007	27.2	6	0.0	0
SR-Ref	2	3	K4	SR-Ref_2_3_K4	4/11/2007	28.0	6	5/10/2007	29.1	8	1.1	2
SR-Ref	2	3	K5	SR-Ref_2_3_K5	4/11/2007	26.3	6	5/10/2007	26.3	6	0.0	0
SR-Ref	2	3	L1	SR-Ref_2_3_L1	4/11/2007	24.3	6	5/10/2007	24.5	6	0.2	0
SR-Ref	2	3	L2	SR-Ref_2_3_L2	4/11/2007	31.5	10	5/10/2007	31.5	10	0.0	0
SR-Ref	2	3	L3	SR-Ref_2_3_L3	4/11/2007	27.3	6	5/10/2007	27.3	6	0.0	0
SR-Ref	2	3	L4	SR-Ref_2_3_L4	4/11/2007	27.5	8	5/10/2007	27.5	8	0.0	0
SR-Ref	2	3	L5	SR-Ref_2_3_L5	4/11/2007	27.4	6	5/10/2007	27.4	6	0.0	-6
CR-Ref	1	1	A1	CR-Ref_1_1_A1	4/12/2007	25.0	6	5/10/2007	25.3	4	0.3	-2
CR-Ref	1	1	A2	CR-Ref_1_1_A2	4/12/2007	23.6	4	5/10/2007	24.0	4	0.4	0
CR-Ref	1	1	A3	CR-Ref_1_1_A3	4/12/2007	23.4	4	5/10/2007	23.6	6	0.2	2
CR-Ref	1	1	A4	CR-Ref_1_1_A4	4/12/2007	22.5	4	5/10/2007	22.6	4	0.1	0
CR-Ref	1	1	A5	CR-Ref_1_1_A5	4/12/2007	26.6	8	5/10/2007	26.6	4	0.0	-4
CR-Ref	1	1	B1	CR-Ref_1_1_B1	4/12/2007	26.6	6	5/10/2007	26.7	8	0.1	2
CR-Ref	1	1	B2	CR-Ref_1_1_B2	4/12/2007	24.6	6	5/10/2007	24.8	6	0.2	0
CR-Ref	1	1	B3	CR-Ref_1_1_B3	4/12/2007	24.0	4	5/10/2007	24.9	6	0.9	2
CR-Ref	1	1	B4	CR-Ref_1_1_B4	4/12/2007	25.8	8	5/10/2007	26.0	6	0.2	-2
CR-Ref	1	1	B5	CR-Ref_1_1_B5	4/12/2007	27.4	6	5/10/2007	27.8	6	0.4	0
CR-Ref	1	1	C1	CR-Ref_1_1_C1	4/12/2007	28.5	10	5/10/2007	28.6	10	0.1	0
CR-Ref	1	1	C2	CR-Ref_1_1_C2	4/12/2007	25.3	6	5/10/2007	25.7	6	0.4	0
CR-Ref	1	1	C3	CR-Ref_1_1_C3	4/12/2007	25.9	8	5/10/2007	26.3	6	0.4	-2
CR-Ref	1	1	C4	CR-Ref_1_1_C4	4/12/2007	25.4	6	5/10/2007	25.4	6	0.0	0
CR-Ref	1	1	C5	CR-Ref_1_1_C5	4/12/2007	26.0	6	5/10/2007	26.2	6	0.2	0
CR-Ref	1	1	D1	CR-Ref_1_1_D1	4/12/2007	27.0	6	5/10/2007	27.0	4	0.0	-2
CR-Ref	1	1	D2	CR-Ref_1_1_D2	4/12/2007	24.3	4	5/10/2007	24.3	4	0.0	0
CR-Ref	1	1	D3	CR-Ref_1_1_D3	4/12/2007	24.0	4	5/10/2007	24.0	4	0.0	0
CR-Ref	1	1	D4	CR-Ref_1_1_D4	4/12/2007	27.3	6	5/10/2007	27.3	6	0.0	0
CR-Ref	1	1	D5	CR-Ref_1_1_D5	4/12/2007	23.1	4	5/10/2007	23.5	4	0.3	0
CR-Ref	1	2	E1	CR-Ref_1_2_E1	4/12/2007	28.5	8	5/10/2007	29.2	8	0.7	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
CR-Ref	1	2	E2	CR-Ref_1_2_E2	4/12/2007	24.6	4	5/10/2007	24.7	6	0.1	2
CR-Ref	1	2	E3	CR-Ref_1_2_E3	4/12/2007	2.6	6	5/10/2007	26.3	6	23.7	0
CR-Ref	1	2	E4	CR-Ref_1_2_E4	4/12/2007	26.4	6	5/10/2007	27.2	6	0.8	0
CR-Ref	1	2	E5	CR-Ref_1_2_E5	4/12/2007	27.4	6	5/10/2007	27.4	6	0.0	0
CR-Ref	1	2	F1	CR-Ref_1_2_F1	4/12/2007	26.8	6	5/10/2007	26.8	4	0.0	-2
CR-Ref	1	2	F2	CR-Ref_1_2_F2	4/12/2007	23.5	4	5/10/2007	24.0	4	0.5	0
CR-Ref	1	2	F3	CR-Ref_1_2_F3	4/12/2007	25.0	6	5/10/2007	25.1	6	0.1	0
CR-Ref	1	2	F4	CR-Ref_1_2_F4	4/12/2007	26.0	6	5/10/2007	26.0	6	0.0	0
CR-Ref	1	2	F5	CR-Ref_1_2_F5	4/12/2007	25.9	6	5/10/2007	26.1	6	0.2	0
CR-Ref	1	2	G1	CR-Ref_1_2_G1	4/12/2007	26.6	6	5/10/2007	26.6	6	0.0	0
CR-Ref	1	2	G2	CR-Ref_1_2_G2	4/12/2007	23.6	4	5/10/2007	23.6	4	0.0	0
CR-Ref	1	2	G3	CR-Ref_1_2_G3	4/12/2007	28.0	6	5/10/2007	28.0	4	0.0	-2
CR-Ref	1	2	G4	CR-Ref_1_2_G4	4/12/2007	25.9	6	5/10/2007	26.1	6	0.2	0
CR-Ref	1	2	G5	CR-Ref_1_2_G5	4/12/2007	23.2	4	5/10/2007	23.3	4	0.1	0
CR-Ref	1	2	H1	CR-Ref_1_2_H1	4/12/2007	27.3	6	5/10/2007	27.4	6	0.1	0
CR-Ref	1	2	H2	CR-Ref_1_2_H2	4/12/2007	26.8	6	5/10/2007	26.8	6	0.0	0
CR-Ref	1	2	H3	CR-Ref_1_2_H3	4/12/2007	23.6	4	5/10/2007	23.6	4	0.0	0
CR-Ref	1	2	H4	CR-Ref_1_2_H4	4/12/2007	24.8	6	5/10/2007	24.8	6	0.0	0
CR-Ref	1	2	H5	CR-Ref_1_2_H5	4/12/2007	27.4	8	5/10/2007	28.2	8	0.8	0
CR-Ref	1	3	I1	CR-Ref_1_3_I1	4/12/2007	22.6	4	5/10/2007	22.6	2	0.0	-2
CR-Ref	1	3	I2	CR-Ref_1_3_I2	4/12/2007	22.6	4	5/10/2007	23.0	4	0.4	0
CR-Ref	1	3	I3	CR-Ref_1_3_I3	4/12/2007	24.8	6	5/10/2007	25.3	6	0.5	0
CR-Ref	1	3	I4	CR-Ref_1_3_I4	4/12/2007	22.9	6	5/10/2007	23.4	4	0.5	-2
CR-Ref	1	3	I5	CR-Ref_1_3_I5	4/12/2007	23.4	4	5/10/2007	23.6	4	0.2	0
CR-Ref	1	3	J1	CR-Ref_1_3_J1	4/12/2007	24.5	6	5/10/2007	25.4	4	0.9	-2
CR-Ref	1	3	J2	CR-Ref_1_3_J2	4/12/2007	25.2	6	5/10/2007	25.3	6	0.1	0
CR-Ref	1	3	J3	CR-Ref_1_3_J3	4/12/2007	26.3	6	5/10/2007	26.5	6	0.2	0
CR-Ref	1	3	J4	CR-Ref_1_3_J4	4/12/2007	28.1	8	5/10/2007	28.1	8	0.0	0
CR-Ref	1	3	J5	CR-Ref_1_3_J5	4/12/2007	26.4	6	5/10/2007	26.7	6	0.3	0
CR-Ref	1	3	K1	CR-Ref_1_3_K1	4/12/2007	25.6	4	5/10/2007	25.7	4	0.1	0
CR-Ref	1	3	K2	CR-Ref_1_3_K2	4/12/2007	27.0	8	5/10/2007	27.0	8	0.0	0
CR-Ref	1	3	K3	CR-Ref_1_3_K3	4/12/2007	28.9	8	5/10/2007	29.4	8	0.5	0
CR-Ref	1	3	K4	CR-Ref_1_3_K4	4/12/2007	25.1	6	5/10/2007	25.2	6	0.1	0
CR-Ref	1	3	K5	CR-Ref_1_3_K5	4/12/2007	24.8	4	5/10/2007	24.8	4	0.0	0
CR-Ref	1	3	L1	CR-Ref_1_3_L1	4/12/2007	26.5	6	5/10/2007	26.8	6	0.3	0
CR-Ref	1	3	L2	CR-Ref_1_3_L2	4/12/2007	24.7	4	5/10/2007	24.7	4	0.0	0
CR-Ref	1	3	L3	CR-Ref_1_3_L3	4/12/2007	25.5	4	5/10/2007	25.5	4	0.0	0
CR-Ref	1	3	L4	CR-Ref_1_3_L4	4/12/2007	23.4	6	5/10/2007	23.4	6	0.0	0
CR-Ref	1	3	L5	CR-Ref_1_3_L5	4/12/2007	24.6	6	5/10/2007	24.7	4	0.1	-2
CR-Ref	2	1	A1	CR-Ref_2_1_A1	4/12/2007	27.2	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	A2	CR-Ref_2_1_A2	4/12/2007	26.6	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	A3	CR-Ref_2_1_A3	4/12/2007	24.8	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	A4	CR-Ref_2_1_A4	4/12/2007	26.6	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	A5	CR-Ref_2_1_A5	4/12/2007	22.1	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	B1	CR-Ref_2_1_B1	4/12/2007	27.1	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	B2	CR-Ref_2_1_B2	4/12/2007	24.9	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	B3	CR-Ref_2_1_B3	4/12/2007	25.2	6	5/10/2007	ND	ND	ND	ND

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
CR-Ref	2	1	B4	CR-Ref_2_1_B4	4/12/2007	25.7	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	B5	CR-Ref_2_1_B5	4/12/2007	25.2	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	C1	CR-Ref_2_1_C1	4/12/2007	26.1	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	C2	CR-Ref_2_1_C2	4/12/2007	24.4	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	C3	CR-Ref_2_1_C3	4/12/2007	21.4	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	C4	CR-Ref_2_1_C4	4/12/2007	19.2	2	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	C5	CR-Ref_2_1_C5	4/12/2007	24.8	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	D1	CR-Ref_2_1_D1	4/12/2007	22.6	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	D2	CR-Ref_2_1_D2	4/12/2007	24.2	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	D3	CR-Ref_2_1_D3	4/12/2007	23.7	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	D4	CR-Ref_2_1_D4	4/12/2007	24.6	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	1	D5	CR-Ref_2_1_D5	4/12/2007	24.3	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	E1	CR-Ref_2_2_E1	4/12/2007	22.2	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	E2	CR-Ref_2_2_E2	4/12/2007	24.9	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	E3	CR-Ref_2_2_E3	4/12/2007	22.1	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	E4	CR-Ref_2_2_E4	4/12/2007	24.5	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	E5	CR-Ref_2_2_E5	4/12/2007	25.7	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	F1	CR-Ref_2_2_F1	4/12/2007	25.2	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	F2	CR-Ref_2_2_F2	4/12/2007	23.3	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	F3	CR-Ref_2_2_F3	4/12/2007	25.9	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	F4	CR-Ref_2_2_F4	4/12/2007	23.6	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	F5	CR-Ref_2_2_F5	4/12/2007	25.1	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	G1	CR-Ref_2_2_G1	4/12/2007	27.1	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	G2	CR-Ref_2_2_G2	4/12/2007	27.1	8	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	G3	CR-Ref_2_2_G3	4/12/2007	21.8	2	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	G4	CR-Ref_2_2_G4	4/12/2007	27.4	8	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	G5	CR-Ref_2_2_G5	4/12/2007	20.8	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	H1	CR-Ref_2_2_H1	4/12/2007	24.9	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	H2	CR-Ref_2_2_H2	4/12/2007	23.4	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	H3	CR-Ref_2_2_H3	4/12/2007	29.3	10	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	H4	CR-Ref_2_2_H4	4/12/2007	26.3	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	2	H5	CR-Ref_2_2_H5	4/12/2007	22.3	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	I1	CR-Ref_2_3_I1	4/12/2007	25.0	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	I2	CR-Ref_2_3_I2	4/12/2007	22.0	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	I3	CR-Ref_2_3_I3	4/12/2007	23.4	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	I4	CR-Ref_2_3_I4	4/12/2007	21.0	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	I5	CR-Ref_2_3_I5	4/12/2007	23.2	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	J1	CR-Ref_2_3_J1	4/12/2007	21.0	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	J2	CR-Ref_2_3_J2	4/12/2007	25.7	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	J3	CR-Ref_2_3_J3	4/12/2007	23.1	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	J4	CR-Ref_2_3_J4	4/12/2007	28.2	8	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	J5	CR-Ref_2_3_J5	4/12/2007	24.3	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	K1	CR-Ref_2_3_K1	4/12/2007	25.6	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	K2	CR-Ref_2_3_K2	4/12/2007	21.2	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	K3	CR-Ref_2_3_K3	4/12/2007	26.0	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	K4	CR-Ref_2_3_K4	4/12/2007	25.0	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	K5	CR-Ref_2_3_K5	4/12/2007	22.6	4	5/10/2007	ND	ND	ND	ND

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
CR-Ref	2	3	L1	CR-Ref_2_3_L1	4/12/2007	23.2	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	L2	CR-Ref_2_3_L2	4/12/2007	21.1	4	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	L3	CR-Ref_2_3_L3	4/12/2007	30.6	10	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	L4	CR-Ref_2_3_L4	4/12/2007	24.5	6	5/10/2007	ND	ND	ND	ND
CR-Ref	2	3	L5	CR-Ref_2_3_L5	4/12/2007	26.7	6	5/10/2007	ND	ND	ND	ND
LGP-13	1	1	A1	LGP-13_1_1_A1	4/12/2007	31.3	8	5/10/2007	31.3	4	0.0	-4
LGP-13	1	1	A2	LGP-13_1_1_A2	4/12/2007	23.1	4	5/10/2007	23.1	2	0.0	-2
LGP-13	1	1	A3	LGP-13_1_1_A3	4/12/2007	25.8	6	5/10/2007	25.8	8	0.0	2
LGP-13	1	1	A4	LGP-13_1_1_A4	4/12/2007	26.5	6	5/10/2007	26.5	4	0.0	-2
LGP-13	1	1	A5	LGP-13_1_1_A5	4/12/2007	26.5	6	5/10/2007	26.5	6	0.0	0
LGP-13	1	1	B1	LGP-13_1_1_B1	4/12/2007	26.5	6	5/10/2007	26.5	4	0.0	-2
LGP-13	1	1	B2	LGP-13_1_1_B2	4/12/2007	26.4	6	5/10/2007	26.4	6	0.0	0
LGP-13	1	1	B3	LGP-13_1_1_B3	4/12/2007	26.4	6	5/10/2007	26.4	6	0.0	0
LGP-13	1	1	B4	LGP-13_1_1_B4	4/12/2007	31.2	10	5/10/2007	31.2	6	0.0	-4
LGP-13	1	1	B5	LGP-13_1_1_B5	4/12/2007	26.3	6	5/10/2007	26.3	6	0.0	0
LGP-13	1	1	C1	LGP-13_1_1_C1	4/12/2007	26.3	4	5/10/2007	26.3	4	0.0	0
LGP-13	1	1	C2	LGP-13_1_1_C2	4/12/2007	26.9	6	5/10/2007	26.9	6	0.0	0
LGP-13	1	1	C3	LGP-13_1_1_C3	4/12/2007	28.9	8	5/10/2007	28.9	8	0.0	0
LGP-13	1	1	C4	LGP-13_1_1_C4	4/12/2007	24.2	4	5/10/2007	24.2	6	0.0	2
LGP-13	1	1	C5	LGP-13_1_1_C5	4/12/2007	26.0	6	5/10/2007	26.0	6	0.0	0
LGP-13	1	1	D1	LGP-13_1_1_D1	4/12/2007	32.4	12	5/10/2007	32.4	4	0.0	-8
LGP-13	1	1	D2	LGP-13_1_1_D2	4/12/2007	28.6	8	5/10/2007	28.6	6	0.0	-2
LGP-13	1	1	D3	LGP-13_1_1_D3	4/12/2007	24.3	6	5/10/2007	24.3	4	0.0	-2
LGP-13	1	1	D4	LGP-13_1_1_D4	4/12/2007	28.4	8	5/10/2007	28.4	4	0.0	-4
LGP-13	1	1	D5	LGP-13_1_1_D5	4/12/2007	24.3	6	5/10/2007	24.3	4	0.0	-2
LGP-13	1	2	E1	LGP-13_1_2_E1	4/12/2007	28.6	6	5/10/2007	28.6	6	0.0	0
LGP-13	1	2	E2	LGP-13_1_2_E2	4/12/2007	27.4	6	5/10/2007	27.4	4	0.0	-2
LGP-13	1	2	E3	LGP-13_1_2_E3	4/12/2007	22.4	4	5/10/2007	23.0	6	0.6	2
LGP-13	1	2	E4	LGP-13_1_2_E4	4/12/2007	27.1	6	5/10/2007	27.1	6	0.0	0
LGP-13	1	2	E5	LGP-13_1_2_E5	4/12/2007	25.3	4	5/10/2007	25.3	8	0.0	4
LGP-13	1	2	F1	LGP-13_1_2_F1	4/12/2007	26.5	6	5/10/2007	26.5	4	0.0	-2
LGP-13	1	2	F2	LGP-13_1_2_F2	4/12/2007	26.7	8	5/10/2007	27.5	12	0.8	4
LGP-13	1	2	F3	LGP-13_1_2_F3	4/12/2007	25.2	6	5/10/2007	ND	ND	ND	ND
LGP-13	1	2	F4	LGP-13_1_2_F4	4/12/2007	26.5	8	5/10/2007	26.5	6	0.0	-2
LGP-13	1	2	F5	LGP-13_1_2_F5	4/12/2007	24.4	4	5/10/2007	24.4	8	0.0	4
LGP-13	1	2	G1	LGP-13_1_2_G1	4/12/2007	24.1	4	5/10/2007	24.1	6	0.0	2
LGP-13	1	2	G2	LGP-13_1_2_G2	4/12/2007	28.2	6	5/10/2007	28.2	6	0.0	0
LGP-13	1	2	G3	LGP-13_1_2_G3	4/12/2007	25.3	4	5/10/2007	25.3	4	0.0	0
LGP-13	1	2	G4	LGP-13_1_2_G4	4/12/2007	30.9	8	5/10/2007	30.9	4	0.0	-4
LGP-13	1	2	G5	LGP-13_1_2_G5	4/12/2007	26.4	6	5/10/2007	26.4	6	0.0	0
LGP-13	1	2	H1	LGP-13_1_2_H1	4/12/2007	25.6	4	5/10/2007	25.6	4	0.0	0
LGP-13	1	2	H2	LGP-13_1_2_H2	4/12/2007	28.5	6	5/10/2007	28.5	8	0.0	2
LGP-13	1	2	H3	LGP-13_1_2_H3	4/12/2007	24.6	4	5/10/2007	24.6	8	0.0	4
LGP-13	1	2	H4	LGP-13_1_2_H4	4/12/2007	26.2	4	5/10/2007	27.2	6	1.0	2
LGP-13	1	2	H5	LGP-13_1_2_H5	4/12/2007	22.6	4	5/10/2007	23.9	6	1.3	2
LGP-13	1	3	I1	LGP-13_1_3_I1	4/12/2007	30.1	10	5/10/2007	30.1	6	0.0	-4
LGP-13	1	3	I2	LGP-13_1_3_I2	4/12/2007	27.0	8	5/10/2007	27.0	6	0.0	-2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-13	1	3	I3	LGP-13_1_3_I3	4/12/2007	26.6	8	5/10/2007	26.6	6	0.0	-2
LGP-13	1	3	I4	LGP-13_1_3_I4	4/12/2007	26.4	6	5/10/2007	26.4	6	0.0	0
LGP-13	1	3	I5	LGP-13_1_3_I5	4/12/2007	27.0	6	5/10/2007	27.0	4	0.0	-2
LGP-13	1	3	J1	LGP-13_1_3_J1	4/12/2007	27.7	8	5/10/2007	27.7	10	0.0	2
LGP-13	1	3	J2	LGP-13_1_3_J2	4/12/2007	24.4	4	5/10/2007	24.4	4	0.0	0
LGP-13	1	3	J3	LGP-13_1_3_J3	4/12/2007	28.3	10	5/10/2007	28.3	4	0.0	-6
LGP-13	1	3	J4	LGP-13_1_3_J4	4/12/2007	24.9	4	5/10/2007	24.9	6	0.0	2
LGP-13	1	3	J5	LGP-13_1_3_J5	4/12/2007	26.3	6	5/10/2007	26.3	6	0.0	0
LGP-13	1	3	K1	LGP-13_1_3_K1	4/12/2007	25.6	6	5/10/2007	25.6	6	0.0	0
LGP-13	1	3	K2	LGP-13_1_3_K2	4/12/2007	28.0	2	5/10/2007	28.0	4	0.0	2
LGP-13	1	3	K3	LGP-13_1_3_K3	4/12/2007	26.3	6	5/10/2007	26.3	4	0.0	-2
LGP-13	1	3	K4	LGP-13_1_3_K4	4/12/2007	22.5	4	5/10/2007	22.3	8	-0.2	4
LGP-13	1	3	K5	LGP-13_1_3_K5	4/12/2007	24.3	4	5/10/2007	24.3	6	0.0	2
LGP-13	1	3	L1	LGP-13_1_3_L1	4/12/2007	26.6	6	5/10/2007	26.6	6	0.0	0
LGP-13	1	3	L2	LGP-13_1_3_L2	4/12/2007	24.9	6	5/10/2007	25.6	8	0.7	2
LGP-13	1	3	L3	LGP-13_1_3_L3	4/12/2007	27.5	6	5/10/2007	27.5	6	0.0	0
LGP-13	1	3	L4	LGP-13_1_3_L4	4/12/2007	24.8	4	5/10/2007	24.8	6	0.0	2
LGP-13	1	3	L5	LGP-13_1_3_L5	4/12/2007	28.5	6	5/10/2007	28.5	4	0.0	-2
LGP-13	2	1	A1	LGP-13_2_1_A1	4/12/2007	25.2	4	5/10/2007	25.2	10	0.0	6
LGP-13	2	1	A2	LGP-13_2_1_A2	4/12/2007	24.7	4	5/10/2007	24.7	10	0.0	6
LGP-13	2	1	A3	LGP-13_2_1_A3	4/12/2007	29.3	8	5/10/2007	29.3	6	0.0	-2
LGP-13	2	1	A4	LGP-13_2_1_A4	4/12/2007	24.2	4	5/10/2007	24.2	6	0.0	2
LGP-13	2	1	A5	LGP-13_2_1_A5	4/12/2007	26.7	6	5/10/2007	26.7	6	0.0	0
LGP-13	2	1	B1	LGP-13_2_1_B1	4/12/2007	22.2	4	5/10/2007	22.2	6	0.0	2
LGP-13	2	1	B2	LGP-13_2_1_B2	4/12/2007	26.0	4	5/10/2007	26.0	8	0.0	4
LGP-13	2	1	B3	LGP-13_2_1_B3	4/12/2007	26.2	6	5/10/2007	26.2	4	0.0	-2
LGP-13	2	1	B4	LGP-13_2_1_B4	4/12/2007	27.8	8	5/10/2007	27.8	10	0.0	2
LGP-13	2	1	B5	LGP-13_2_1_B5	4/12/2007	25.9	26	5/10/2007	25.9	6	0.0	-20
LGP-13	2	1	C1	LGP-13_2_1_C1	4/12/2007	25.6	4	5/10/2007	25.6	6	0.0	2
LGP-13	2	1	C2	LGP-13_2_1_C2	4/12/2007	26.4	4	5/10/2007	26.4	6	0.0	2
LGP-13	2	1	C3	LGP-13_2_1_C3	4/12/2007	27.9	6	5/10/2007	27.9	10	0.0	4
LGP-13	2	1	C4	LGP-13_2_1_C4	4/12/2007	23.9	4	5/10/2007	23.9	4	0.0	0
LGP-13	2	1	C5	LGP-13_2_1_C5	4/12/2007	25.7	4	5/10/2007	25.7	6	0.0	2
LGP-13	2	1	D1	LGP-13_2_1_D1	4/12/2007	25.2	6	5/10/2007	27.6	12	2.4	6
LGP-13	2	1	D2	LGP-13_2_1_D2	4/12/2007	25.7	6	5/10/2007	25.7	8	0.0	2
LGP-13	2	1	D3	LGP-13_2_1_D3	4/12/2007	26.6	6	5/10/2007	26.6	6	0.0	0
LGP-13	2	1	D4	LGP-13_2_1_D4	4/12/2007	27.8	6	5/10/2007	27.8	8	0.0	2
LGP-13	2	1	D5	LGP-13_2_1_D5	4/12/2007	23.9	4	5/10/2007	23.9	6	0.0	2
LGP-13	2	2	E1	LGP-13_2_2_E1	4/12/2007	25.3	4	5/10/2007	25.3	6	0.0	2
LGP-13	2	2	E2	LGP-13_2_2_E2	4/12/2007	25.5	4	5/10/2007	25.5	6	0.0	2
LGP-13	2	2	E3	LGP-13_2_2_E3	4/12/2007	28.4	6	5/10/2007	28.4	6	0.0	0
LGP-13	2	2	E4	LGP-13_2_2_E4	4/12/2007	24.4	4	5/10/2007	24.4	8	0.0	4
LGP-13	2	2	E5	LGP-13_2_2_E5	4/12/2007	28.4	6	5/10/2007	28.4	6	0.0	0
LGP-13	2	2	F1	LGP-13_2_2_F1	4/12/2007	25.9	4	5/10/2007	25.9	6	0.0	2
LGP-13	2	2	F2	LGP-13_2_2_F2	4/12/2007	33.0	12	5/10/2007	33.0	8	0.0	-4
LGP-13	2	2	F3	LGP-13_2_2_F3	4/12/2007	32.3	12	5/10/2007	32.3	6	0.0	-6
LGP-13	2	2	F4	LGP-13_2_2_F4	4/12/2007	25.5	6	5/10/2007	25.5	8	0.0	2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-13	2	2	F5	LGP-13_2_2_F5	4/12/2007	27.9	8	5/10/2007	27.9	4	0.0	-4
LGP-13	2	2	G1	LGP-13_2_2_G1	4/12/2007	25.9	6	5/10/2007	25.9	4	0.0	-2
LGP-13	2	2	G2	LGP-13_2_2_G2	4/12/2007	25.2	6	5/10/2007	ND	ND	ND	ND
LGP-13	2	2	G3	LGP-13_2_2_G3	4/12/2007	26.3	6	5/10/2007	26.3	4	0.0	-2
LGP-13	2	2	G4	LGP-13_2_2_G4	4/12/2007	26.6	6	5/10/2007	26.6	8	0.0	2
LGP-13	2	2	G5	LGP-13_2_2_G5	4/12/2007	26.5	6	5/10/2007	26.5	4	0.0	-2
LGP-13	2	2	H1	LGP-13_2_2_H1	4/12/2007	25.9	4	5/10/2007	25.9	4	0.0	0
LGP-13	2	2	H2	LGP-13_2_2_H2	4/12/2007	25.5	8	5/10/2007	25.5	6	0.0	-2
LGP-13	2	2	H3	LGP-13_2_2_H3	4/12/2007	28.2	8	5/10/2007	28.2	6	0.0	-2
LGP-13	2	2	H4	LGP-13_2_2_H4	4/12/2007	26.9	6	5/10/2007	26.9	6	0.0	0
LGP-13	2	2	H5	LGP-13_2_2_H5	4/12/2007	29.1	8	5/10/2007	29.1	4	0.0	-4
LGP-13	2	3	I1	LGP-13_2_3_I1	4/12/2007	26.3	8	5/10/2007	26.3	8	0.0	0
LGP-13	2	3	I2	LGP-13_2_3_I2	4/12/2007	25.8	4	5/10/2007	25.8	6	0.0	2
LGP-13	2	3	I3	LGP-13_2_3_I3	4/12/2007	25.2	6	5/10/2007	25.2	6	0.0	0
LGP-13	2	3	I4	LGP-13_2_3_I4	4/12/2007	26.5	6	5/10/2007	26.5	6	0.0	0
LGP-13	2	3	I5	LGP-13_2_3_I5	4/12/2007	23.2	4	5/10/2007	23.8	8	0.6	4
LGP-13	2	3	J1	LGP-13_2_3_J1	4/12/2007	30.8	10	5/10/2007	30.8	4	0.0	-6
LGP-13	2	3	J2	LGP-13_2_3_J2	4/12/2007	26.0	4	5/10/2007	26.0	10	0.0	6
LGP-13	2	3	J3	LGP-13_2_3_J3	4/12/2007	23.9	4	5/10/2007	23.9	4	0.0	0
LGP-13	2	3	J4	LGP-13_2_3_J4	4/12/2007	28.6	6	5/10/2007	28.6	6	0.0	0
LGP-13	2	3	J5	LGP-13_2_3_J5	4/12/2007	27.5	6	5/10/2007	27.5	6	0.0	0
LGP-13	2	3	K1	LGP-13_2_3_K1	4/12/2007	26.6	6	5/10/2007	ND	ND	ND	ND
LGP-13	2	3	K2	LGP-13_2_3_K2	4/12/2007	25.9	4	5/10/2007	25.9	4	0.0	0
LGP-13	2	3	K3	LGP-13_2_3_K3	4/12/2007	24.2	4	5/10/2007	24.2	4	0.0	0
LGP-13	2	3	K4	LGP-13_2_3_K4	4/12/2007	27.5	8	5/10/2007	27.5	8	0.0	0
LGP-13	2	3	K5	LGP-13_2_3_K5	4/12/2007	26.6	6	5/10/2007	26.6	6	0.0	0
LGP-13	2	3	L1	LGP-13_2_3_L1	4/12/2007	28.0	6	5/10/2007	28.0	6	0.0	0
LGP-13	2	3	L2	LGP-13_2_3_L2	4/12/2007	30.7	10	5/10/2007	30.7	4	0.0	-6
LGP-13	2	3	L3	LGP-13_2_3_L3	4/12/2007	28.5	10	5/10/2007	28.5	4	0.0	-6
LGP-13	2	3	L4	LGP-13_2_3_L4	4/12/2007	27.4	6	5/10/2007	27.4	6	0.0	0
LGP-13	2	3	L5	LGP-13_2_3_L5	4/12/2007	27.3	6	5/10/2007	27.3	6	0.0	0
LGP-11	1	1	A1	LGP-11_1_1_A1	4/12/2007	24.9	6	5/12/2007	24.9	4	0.0	-2
LGP-11	1	1	A2	LGP-11_1_1_A2	4/12/2007	25.0	6	5/12/2007	25.2	6	0.2	0
LGP-11	1	1	A3	LGP-11_1_1_A3	4/12/2007	26.0	6	5/12/2007	26.0	6	0.0	0
LGP-11	1	1	A4	LGP-11_1_1_A4	4/12/2007	27.3	3	5/12/2007	27.7	8	0.4	5
LGP-11	1	1	A5	LGP-11_1_1_A5	4/12/2007	27.8	8	5/12/2007	27.8	8	0.0	0
LGP-11	1	1	B1	LGP-11_1_1_B1	4/12/2007	27.7	6	5/12/2007	27.7	8	0.0	2
LGP-11	1	1	B2	LGP-11_1_1_B2	4/12/2007	28.4	6	5/12/2007	28.5	6	0.1	0
LGP-11	1	1	B3	LGP-11_1_1_B3	4/12/2007	27.8	6	5/12/2007	27.8	6	0.0	0
LGP-11	1	1	B4	LGP-11_1_1_B4	4/12/2007	27.9	6	5/12/2007	28.2	8	0.3	2
LGP-11	1	1	B5	LGP-11_1_1_B5	4/12/2007	28.6	8	5/12/2007	28.6	9	0.0	1
LGP-11	1	1	C1	LGP-11_1_1_C1	4/12/2007	25.6	6	5/12/2007	25.7	6	0.1	0
LGP-11	1	1	C2	LGP-11_1_1_C2	4/12/2007	25.3	6	5/12/2007	25.3	6	0.0	0
LGP-11	1	1	C3	LGP-11_1_1_C3	4/12/2007	27.8	6	5/12/2007	27.8	6	0.0	0
LGP-11	1	1	C4	LGP-11_1_1_C4	4/12/2007	26.9	6	5/12/2007	26.9	6	0.0	0
LGP-11	1	1	C5	LGP-11_1_1_C5	4/12/2007	27.6	8	5/12/2007	27.8	8	0.2	0
LGP-11	1	1	D1	LGP-11_1_1_D1	4/12/2007	28.6	10	5/12/2007	28.6	8	0.0	-2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-11	1	1	D2	LGP-11_1_1_D2	4/12/2007	27.5	6	5/12/2007	28.1	8	0.6	2
LGP-11	1	1	D3	LGP-11_1_1_D3	4/12/2007	24.5	4	5/12/2007	24.5	6	0.0	2
LGP-11	1	1	D4	LGP-11_1_1_D4	4/12/2007	29.6	8	5/12/2007	29.6	8	0.0	0
LGP-11	1	1	D5	LGP-11_1_1_D5	4/12/2007	26.2	6	5/12/2007	26.2	4	0.0	-2
LGP-11	1	2	E1	LGP-11_1_2_E1	4/12/2007	27.1	4	5/12/2007	27.3	8	0.2	4
LGP-11	1	2	E2	LGP-11_1_2_E2	4/12/2007	23.9	4	5/12/2007	25.4	6	1.5	2
LGP-11	1	2	E3	LGP-11_1_2_E3	4/12/2007	25.3	4	5/12/2007	25.3	6	0.0	2
LGP-11	1	2	E4	LGP-11_1_2_E4	4/12/2007	25.4	6	5/12/2007	25.4	6	0.0	0
LGP-11	1	2	E5	LGP-11_1_2_E5	4/12/2007	27.0	6	5/12/2007	27.6	8	0.6	2
LGP-11	1	2	F1	LGP-11_1_2_F1	4/12/2007	26.7	6	5/12/2007	26.8	8	0.1	2
LGP-11	1	2	F2	LGP-11_1_2_F2	4/12/2007	25.5	6	5/12/2007	25.5	6	0.0	0
LGP-11	1	2	F3	LGP-11_1_2_F3	4/12/2007	24.1	4	5/12/2007	24.1	8	0.0	4
LGP-11	1	2	F4	LGP-11_1_2_F4	4/12/2007	26.9	8	5/12/2007	26.9	6	0.0	-2
LGP-11	1	2	F5	LGP-11_1_2_F5	4/12/2007	26.9	6	5/12/2007	26.9	6	0.0	0
LGP-11	1	2	G1	LGP-11_1_2_G1	4/12/2007	26.9	6	5/12/2007	26.9	6	0.0	0
LGP-11	1	2	G2	LGP-11_1_2_G2	4/12/2007	27.1	6	5/12/2007	27.2	6	0.1	0
LGP-11	1	2	G3	LGP-11_1_2_G3	4/12/2007	27.0	6	5/12/2007	27.5	6	0.5	0
LGP-11	1	2	G4	LGP-11_1_2_G4	4/12/2007	27.8	8	5/12/2007	27.8	8	0.0	0
LGP-11	1	2	G5	LGP-11_1_2_G5	4/12/2007	25.5	6	5/12/2007	25.8	6	0.3	0
LGP-11	1	2	H1	LGP-11_1_2_H1	4/12/2007	25.0	6	5/12/2007	25.0	6	0.0	0
LGP-11	1	2	H2	LGP-11_1_2_H2	4/12/2007	27.6	8	5/12/2007	27.6	8	0.0	0
LGP-11	1	2	H3	LGP-11_1_2_H3	4/12/2007	25.4	6	5/12/2007	25.4	6	0.0	0
LGP-11	1	2	H4	LGP-11_1_2_H4	4/12/2007	26.9	8	5/12/2007	26.9	8	0.0	0
LGP-11	1	2	H5	LGP-11_1_2_H5	4/12/2007	24.0	4	5/12/2007	24.0	4	0.0	0
LGP-11	1	3	I1	LGP-11_1_3_I1	4/12/2007	26.4	6	5/12/2007	26.4	8	0.0	2
LGP-11	1	3	I2	LGP-11_1_3_I2	4/12/2007	26.0	6	5/12/2007	26.0	6	0.0	0
LGP-11	1	3	I3	LGP-11_1_3_I3	4/12/2007	26.3	4	5/12/2007	26.3	6	0.0	2
LGP-11	1	3	I4	LGP-11_1_3_I4	4/12/2007	28.4	4	5/12/2007	28.4	4	0.0	0
LGP-11	1	3	I5	LGP-11_1_3_I5	4/12/2007	26.2	6	5/12/2007	26.2	8	0.0	2
LGP-11	1	3	J1	LGP-11_1_3_J1	4/12/2007	26.9	6	5/12/2007	26.9	8	0.0	2
LGP-11	1	3	J2	LGP-11_1_3_J2	4/12/2007	21.6	4	5/12/2007	21.6	4	0.0	0
LGP-11	1	3	J3	LGP-11_1_3_J3	4/12/2007	26.1	6	5/12/2007	26.1	6	0.0	0
LGP-11	1	3	J4	LGP-11_1_3_J4	4/12/2007	25.5	4	5/12/2007	25.5	6	0.0	2
LGP-11	1	3	J5	LGP-11_1_3_J5	4/12/2007	23.3	4	5/12/2007	23.3	4	0.0	0
LGP-11	1	3	K1	LGP-11_1_3_K1	4/12/2007	26.6	8	5/12/2007	26.6	8	0.0	0
LGP-11	1	3	K2	LGP-11_1_3_K2	4/12/2007	28.2	8	5/12/2007	28.2	8	0.0	0
LGP-11	1	3	K3	LGP-11_1_3_K3	4/12/2007	25.9	6	5/12/2007	25.9	6	0.0	0
LGP-11	1	3	K4	LGP-11_1_3_K4	4/12/2007	25.0	4	5/12/2007	25.0	6	0.0	2
LGP-11	1	3	K5	LGP-11_1_3_K5	4/12/2007	23.5	4	5/12/2007	23.6	6	0.1	2
LGP-11	1	3	L1	LGP-11_1_3_L1	4/12/2007	26.8	6	5/12/2007	26.8	8	0.0	2
LGP-11	1	3	L2	LGP-11_1_3_L2	4/12/2007	25.0	4	5/12/2007	25.0	6	0.0	2
LGP-11	1	3	L3	LGP-11_1_3_L3	4/12/2007	26.5	6	5/12/2007	26.5	6	0.0	0
LGP-11	1	3	L4	LGP-11_1_3_L4	4/12/2007	25.4	6	5/12/2007	25.4	6	0.0	0
LGP-11	1	3	L5	LGP-11_1_3_L5	4/12/2007	25.0	6	5/12/2007	25.0	6	0.0	0
LGP-11	2	1	A1	LGP-11_2_1_A1	4/12/2007	27.2	4	5/12/2007	27.2	8	0.0	4
LGP-11	2	1	A2	LGP-11_2_1_A2	4/12/2007	26.2	4	5/12/2007	26.2	6	0.0	2
LGP-11	2	1	A3	LGP-11_2_1_A3	4/12/2007	25.4	6	5/12/2007	25.4	6	0.0	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-11	2	1	A4	LGP-11_2_1_A4	4/12/2007	26.0	6	5/12/2007	26.0	6	0.0	0
LGP-11	2	1	A5	LGP-11_2_1_A5	4/12/2007	23.3	4	5/12/2007	23.3	4	0.0	0
LGP-11	2	1	B1	LGP-11_2_1_B1	4/12/2007	29.2	8	5/12/2007	29.2	10	0.0	2
LGP-11	2	1	B2	LGP-11_2_1_B2	4/12/2007	25.9	6	5/12/2007	25.9	6	0.0	0
LGP-11	2	1	B3	LGP-11_2_1_B3	4/12/2007	25.4	6	5/12/2007	25.4	8	0.0	2
LGP-11	2	1	B4	LGP-11_2_1_B4	4/12/2007	26.0	8	5/12/2007	26.0	6	0.0	-2
LGP-11	2	1	B5	LGP-11_2_1_B5	4/12/2007	29.8	8	5/12/2007	29.8	8	0.0	0
LGP-11	2	1	C1	LGP-11_2_1_C1	4/12/2007	25.0	4	5/12/2007	25.0	6	0.0	2
LGP-11	2	1	C2	LGP-11_2_1_C2	4/12/2007	26.5	8	5/12/2007	26.5	6	0.0	-2
LGP-11	2	1	C3	LGP-11_2_1_C3	4/12/2007	28.4	8	5/12/2007	28.4	8	0.0	0
LGP-11	2	1	C4	LGP-11_2_1_C4	4/12/2007	28.6	6	5/12/2007	28.6	8	0.0	2
LGP-11	2	1	C5	LGP-11_2_1_C5	4/12/2007	26.1	6	5/12/2007	26.1	6	0.0	0
LGP-11	2	1	D1	LGP-11_2_1_D1	4/12/2007	24.8	6	5/12/2007	24.8	6	0.0	0
LGP-11	2	1	D2	LGP-11_2_1_D2	4/12/2007	26.0	6	5/12/2007	26.0	8	0.0	2
LGP-11	2	1	D3	LGP-11_2_1_D3	4/12/2007	27.6	6	5/12/2007	27.6	8	0.0	2
LGP-11	2	1	D4	LGP-11_2_1_D4	4/12/2007	25.6	6	5/12/2007	25.6	6	0.0	0
LGP-11	2	1	D5	LGP-11_2_1_D5	4/12/2007	24.4	4	5/12/2007	24.6	6	0.2	2
LGP-11	2	2	E1	LGP-11_2_2_E1	4/12/2007	26.7	8	5/12/2007	26.7	6	0.0	-2
LGP-11	2	2	E2	LGP-11_2_2_E2	4/12/2007	25.8	6	5/12/2007	25.8	8	0.0	2
LGP-11	2	2	E3	LGP-11_2_2_E3	4/12/2007	25.2	4	5/12/2007	25.2	6	0.0	2
LGP-11	2	2	E4	LGP-11_2_2_E4	4/12/2007	27.0	6	5/12/2007	27.0	6	0.0	0
LGP-11	2	2	E5	LGP-11_2_2_E5	4/12/2007	25.7	6	5/12/2007	25.7	6	0.0	0
LGP-11	2	2	F1	LGP-11_2_2_F1	4/12/2007	24.7	4	5/12/2007	24.7	6	0.0	2
LGP-11	2	2	F2	LGP-11_2_2_F2	4/12/2007	24.6	4	5/12/2007	24.7	6	0.1	2
LGP-11	2	2	F3	LGP-11_2_2_F3	4/12/2007	24.4	4	5/12/2007	24.4	6	0.0	2
LGP-11	2	2	F4	LGP-11_2_2_F4	4/12/2007	28.5	6	5/12/2007	28.5	6	0.0	0
LGP-11	2	2	F5	LGP-11_2_2_F5	4/12/2007	25.4	6	5/12/2007	25.4	8	0.0	2
LGP-11	2	2	G1	LGP-11_2_2_G1	4/12/2007	23.2	4	5/12/2007	25.2	6	2.0	2
LGP-11	2	2	G2	LGP-11_2_2_G2	4/12/2007	23.3	4	5/12/2007	26.6	6	3.3	2
LGP-11	2	2	G3	LGP-11_2_2_G3	4/12/2007	26.2	6	5/12/2007	26.2	6	0.0	0
LGP-11	2	2	G4	LGP-11_2_2_G4	4/12/2007	29.6	10	5/12/2007	29.6	10	0.0	0
LGP-11	2	2	G5	LGP-11_2_2_G5	4/12/2007	25.2	6	5/12/2007	25.3	6	0.1	0
LGP-11	2	2	H1	LGP-11_2_2_H1	4/12/2007	27.3	6	5/12/2007	27.3	8	0.0	2
LGP-11	2	2	H2	LGP-11_2_2_H2	4/12/2007	27.7	8	5/12/2007	28.4	8	0.7	0
LGP-11	2	2	H3	LGP-11_2_2_H3	4/12/2007	25.9	6	5/12/2007	25.9	6	0.0	0
LGP-11	2	2	H4	LGP-11_2_2_H4	4/12/2007	27.0	8	5/12/2007	27.0	6	0.0	-2
LGP-11	2	2	H5	LGP-11_2_2_H5	4/12/2007	21.5	4	5/12/2007	21.5	4	0.0	0
LGP-11	2	3	I1	LGP-11_2_3_I1	4/12/2007	25.6	4	5/12/2007	25.9	6	0.3	2
LGP-11	2	3	I2	LGP-11_2_3_I2	4/12/2007	26.2	6	5/12/2007	26.4	8	0.2	2
LGP-11	2	3	I3	LGP-11_2_3_I3	4/12/2007	26.5	6	5/12/2007	26.5	6	0.0	0
LGP-11	2	3	I4	LGP-11_2_3_I4	4/12/2007	26.5	4	5/12/2007	27.2	6	0.7	2
LGP-11	2	3	I5	LGP-11_2_3_I5	4/12/2007	24.4	4	5/12/2007	24.7	6	0.3	2
LGP-11	2	3	J1	LGP-11_2_3_J1	4/12/2007	26.8	6	5/12/2007	26.8	8	0.0	2
LGP-11	2	3	J2	LGP-11_2_3_J2	4/12/2007	26.5	6	5/12/2007	26.5	6	0.0	0
LGP-11	2	3	J3	LGP-11_2_3_J3	4/12/2007	26.6	6	5/12/2007	28.8	6	2.2	0
LGP-11	2	3	J4	LGP-11_2_3_J4	4/12/2007	30.6	10	5/12/2007	30.6	10	0.0	0
LGP-11	2	3	J5	LGP-11_2_3_J5	4/12/2007	24.6	6	5/12/2007	26.5	6	1.9	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-11	2	3	K1	LGP-11_2_3_K1	4/12/2007	22.1	6	5/12/2007	22.4	6	0.3	0
LGP-11	2	3	K2	LGP-11_2_3_K2	4/12/2007	25.3	4	5/12/2007	25.3	6	0.0	2
LGP-11	2	3	K3	LGP-11_2_3_K3	4/12/2007	22.2	6	5/12/2007	22.7	4	0.5	-2
LGP-11	2	3	K4	LGP-11_2_3_K4	4/12/2007	26.0	4	5/12/2007	26.0	6	0.0	2
LGP-11	2	3	K5	LGP-11_2_3_K5	4/12/2007	23.0	4	5/12/2007	23.0	4	0.0	0
LGP-11	2	3	L1	LGP-11_2_3_L1	4/12/2007	24.8	6	5/12/2007	24.8	6	0.0	0
LGP-11	2	3	L2	LGP-11_2_3_L2	4/12/2007	26.1	4	5/12/2007	28.5	10	2.4	6
LGP-11	2	3	L3	LGP-11_2_3_L3	4/12/2007	26.7	6	5/12/2007	26.7	6	0.0	0
LGP-11	2	3	L4	LGP-11_2_3_L4	4/12/2007	25.9	6	5/12/2007	25.9	4	0.0	-2
LGP-11	2	3	L5	LGP-11_2_3_L5	4/12/2007	26.5	6	5/12/2007	26.5	4	0.0	-2
LGP-09	1	1	A1	LGP-09_1_1_A1	4/12/2007	28.2	8	5/13/2007	28.2	8	0.0	0
LGP-09	1	1	A2	LGP-09_1_1_A2	4/12/2007	23.0	4	5/13/2007	23.0	4	0.0	0
LGP-09	1	1	A3	LGP-09_1_1_A3	4/12/2007	26.8	8	5/13/2007	26.9	6	0.1	-2
LGP-09	1	1	A4	LGP-09_1_1_A4	4/12/2007	27.1	6	5/13/2007	27.1	6	0.0	0
LGP-09	1	1	A5	LGP-09_1_1_A5	4/12/2007	21.2	4	5/13/2007	21.2	2	0.0	-2
LGP-09	1	1	B1	LGP-09_1_1_B1	4/12/2007	27.8	8	5/13/2007	27.8	8	0.0	0
LGP-09	1	1	B2	LGP-09_1_1_B2	4/12/2007	22.9	10	5/13/2007	29.0	10	6.1	0
LGP-09	1	1	B3	LGP-09_1_1_B3	4/12/2007	26.1	6	5/13/2007	26.1	6	0.0	0
LGP-09	1	1	B4	LGP-09_1_1_B4	4/12/2007	27.2	8	5/13/2007	27.2	6	0.0	-2
LGP-09	1	1	B5	LGP-09_1_1_B5	4/12/2007	23.5	6	5/13/2007	23.8	4	0.3	-2
LGP-09	1	1	C1	LGP-09_1_1_C1	4/12/2007	27.0	8	5/13/2007	27.0	8	0.0	0
LGP-09	1	1	C2	LGP-09_1_1_C2	4/12/2007	27.4	6	5/13/2007	28.1	6	0.7	0
LGP-09	1	1	C3	LGP-09_1_1_C3	4/12/2007	26.6	6	5/13/2007	26.6	4	0.0	-2
LGP-09	1	1	C4	LGP-09_1_1_C4	4/12/2007	23.7	4	5/13/2007	26.4	6	2.7	2
LGP-09	1	1	C5	LGP-09_1_1_C5	4/12/2007	26.0	4	5/13/2007	26.0	4	0.0	0
LGP-09	1	1	D1	LGP-09_1_1_D1	4/12/2007	27.4	6	5/13/2007	27.4	4	0.0	-2
LGP-09	1	1	D2	LGP-09_1_1_D2	4/12/2007	25.5	6	5/13/2007	26.1	6	0.6	0
LGP-09	1	1	D3	LGP-09_1_1_D3	4/12/2007	27.1	8	5/13/2007	27.1	8	0.0	0
LGP-09	1	1	D4	LGP-09_1_1_D4	4/12/2007	23.6	4	5/13/2007	23.6	4	0.0	0
LGP-09	1	1	D5	LGP-09_1_1_D5	4/12/2007	26.3	6	5/13/2007	26.9	6	0.6	0
LGP-09	1	2	E1	LGP-09_1_2_E1	4/12/2007	25.7	8	5/13/2007	25.8	6	0.1	-2
LGP-09	1	2	E2	LGP-09_1_2_E2	4/12/2007	22.7	4	5/13/2007	23.6	4	0.9	0
LGP-09	1	2	E3	LGP-09_1_2_E3	4/12/2007	24.9	4	5/13/2007	24.9	4	0.0	0
LGP-09	1	2	E4	LGP-09_1_2_E4	4/12/2007	24.5	4	5/13/2007	24.5	4	0.0	0
LGP-09	1	2	E5	LGP-09_1_2_E5	4/12/2007	23.2	4	5/13/2007	ND	ND	ND	ND
LGP-09	1	2	F1	LGP-09_1_2_F1	4/12/2007	26.7	6	5/13/2007	26.7	6	0.0	0
LGP-09	1	2	F2	LGP-09_1_2_F2	4/12/2007	25.8	4	5/13/2007	26.1	4	0.3	0
LGP-09	1	2	F3	LGP-09_1_2_F3	4/12/2007	26.5	6	5/13/2007	26.5	6	0.0	0
LGP-09	1	2	F4	LGP-09_1_2_F4	4/12/2007	25.4	6	5/13/2007	25.4	6	0.0	0
LGP-09	1	2	F5	LGP-09_1_2_F5	4/12/2007	25.0	6	5/13/2007	25.0	6	0.0	0
LGP-09	1	2	G1	LGP-09_1_2_G1	4/12/2007	26.4	4	5/13/2007	26.4	8	0.0	4
LGP-09	1	2	G2	LGP-09_1_2_G2	4/12/2007	24.9	4	5/13/2007	24.9	6	0.0	2
LGP-09	1	2	G3	LGP-09_1_2_G3	4/12/2007	25.8	6	5/13/2007	25.8	8	0.0	2
LGP-09	1	2	G4	LGP-09_1_2_G4	4/12/2007	23.0	4	5/13/2007	23.0	6	0.0	2
LGP-09	1	2	G5	LGP-09_1_2_G5	4/12/2007	26.6	6	5/13/2007	26.6	8	0.0	2
LGP-09	1	2	H1	LGP-09_1_2_H1	4/12/2007	25.9	6	5/13/2007	26.0	8	0.1	2
LGP-09	1	2	H2	LGP-09_1_2_H2	4/12/2007	26.1	6	5/13/2007	26.4	4	0.3	-2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-09	1	2	H3	LGP-09_1_2_H3	4/12/2007	23.6	4	5/13/2007	24.2	4	0.6	0
LGP-09	1	2	H4	LGP-09_1_2_H4	4/12/2007	22.3	4	5/13/2007	22.3	4	0.0	0
LGP-09	1	2	H5	LGP-09_1_2_H5	4/12/2007	23.1	4	5/13/2007	23.5	4	0.4	0
LGP-09	1	3	I1	LGP-09_1_3_I1	4/12/2007	24.0	4	5/13/2007	24.0	4	0.0	0
LGP-09	1	3	I2	LGP-09_1_3_I2	4/12/2007	21.6	4	5/13/2007	21.6	2	0.0	-2
LGP-09	1	3	I3	LGP-09_1_3_I3	4/12/2007	20.0	2	5/13/2007	20.0	2	0.0	0
LGP-09	1	3	I4	LGP-09_1_3_I4	4/12/2007	25.6	4	5/13/2007	25.6	4	0.0	0
LGP-09	1	3	I5	LGP-09_1_3_I5	4/12/2007	31.8	10	5/13/2007	32.1	10	0.3	0
LGP-09	1	3	J1	LGP-09_1_3_J1	4/12/2007	26.3	6	5/13/2007	26.4	4	0.1	-2
LGP-09	1	3	J2	LGP-09_1_3_J2	4/12/2007	25.6	6	5/13/2007	25.6	8	0.0	2
LGP-09	1	3	J3	LGP-09_1_3_J3	4/12/2007	28.2	8	5/13/2007	28.2	6	0.0	-2
LGP-09	1	3	J4	LGP-09_1_3_J4	4/12/2007	22.3	4	5/13/2007	22.3	4	0.0	0
LGP-09	1	3	J5	LGP-09_1_3_J5	4/12/2007	25.7	4	5/13/2007	25.7	6	0.0	2
LGP-09	1	3	K1	LGP-09_1_3_K1	4/12/2007	25.4	6	5/13/2007	25.4	6	0.0	0
LGP-09	1	3	K2	LGP-09_1_3_K2	4/12/2007	24.9	4	5/13/2007	24.9	4	0.0	0
LGP-09	1	3	K3	LGP-09_1_3_K3	4/12/2007	23.1	4	5/13/2007	26.6	8	3.6	4
LGP-09	1	3	K4	LGP-09_1_3_K4	4/12/2007	26.9	8	5/13/2007	26.9	4	0.0	-4
LGP-09	1	3	K5	LGP-09_1_3_K5	4/12/2007	24.1	4	5/13/2007	24.6	4	0.5	0
LGP-09	1	3	L1	LGP-09_1_3_L1	4/12/2007	28.6	6	5/13/2007	28.6	6	0.0	0
LGP-09	1	3	L2	LGP-09_1_3_L2	4/12/2007	23.8	4	5/13/2007	23.8	4	0.0	0
LGP-09	1	3	L3	LGP-09_1_3_L3	4/12/2007	24.4	6	5/13/2007	24.4	4	0.0	-2
LGP-09	1	3	L4	LGP-09_1_3_L4	4/12/2007	22.2	4	5/13/2007	22.7	6	0.5	2
LGP-09	1	3	L5	LGP-09_1_3_L5	4/12/2007	25.6	4	5/13/2007	25.6	6	0.0	2
LGP-09	2	1	A1	LGP-09_2_1_A1	4/12/2007	27.6	6	5/13/2007	27.6	6	0.0	0
LGP-09	2	1	A2	LGP-09_2_1_A2	4/12/2007	26.0	6	5/13/2007	26.7	6	0.7	0
LGP-09	2	1	A3	LGP-09_2_1_A3	4/12/2007	27.2	8	5/13/2007	27.2	8	0.0	0
LGP-09	2	1	A4	LGP-09_2_1_A4	4/12/2007	25.8	6	5/13/2007	26.3	6	0.5	0
LGP-09	2	1	A5	LGP-09_2_1_A5	4/12/2007	24.5	4	5/13/2007	25.1	4	0.6	0
LGP-09	2	1	B1	LGP-09_2_1_B1	4/12/2007	25.2	8	5/13/2007	25.6	4	0.4	-4
LGP-09	2	1	B2	LGP-09_2_1_B2	4/12/2007	26.2	6	5/13/2007	26.4	6	0.2	0
LGP-09	2	1	B3	LGP-09_2_1_B3	4/12/2007	26.7	6	5/13/2007	26.9	6	0.2	0
LGP-09	2	1	B4	LGP-09_2_1_B4	4/12/2007	26.5	6	5/13/2007	26.8	6	0.3	0
LGP-09	2	1	B5	LGP-09_2_1_B5	4/12/2007	25.7	6	5/13/2007	25.8	4	0.1	-2
LGP-09	2	1	C1	LGP-09_2_1_C1	4/12/2007	24.1	6	5/13/2007	24.1	4	0.0	-2
LGP-09	2	1	C2	LGP-09_2_1_C2	4/12/2007	22.8	4	5/13/2007	22.8	4	0.0	0
LGP-09	2	1	C3	LGP-09_2_1_C3	4/12/2007	25.5	6	5/13/2007	25.5	6	0.0	0
LGP-09	2	1	C4	LGP-09_2_1_C4	4/12/2007	22.2	4	5/13/2007	22.2	4	0.0	0
LGP-09	2	1	C5	LGP-09_2_1_C5	4/12/2007	24.8	6	5/13/2007	24.8	6	0.0	0
LGP-09	2	1	D1	LGP-09_2_1_D1	4/12/2007	27.1	6	5/13/2007	27.1	6	0.0	0
LGP-09	2	1	D2	LGP-09_2_1_D2	4/12/2007	25.6	6	5/13/2007	25.6	6	0.0	0
LGP-09	2	1	D3	LGP-09_2_1_D3	4/12/2007	21.6	4	5/13/2007	22.1	4	0.5	0
LGP-09	2	1	D4	LGP-09_2_1_D4	4/12/2007	29.6	8	5/13/2007	29.6	8	0.0	0
LGP-09	2	1	D5	LGP-09_2_1_D5	4/12/2007	25.9	6	5/13/2007	26.2	8	0.3	2
LGP-09	2	2	E1	LGP-09_2_2_E1	4/12/2007	29.6	6	5/13/2007	29.6	8	0.0	2
LGP-09	2	2	E2	LGP-09_2_2_E2	4/12/2007	24.8	4	5/13/2007	25.4	4	0.6	0
LGP-09	2	2	E3	LGP-09_2_2_E3	4/12/2007	27.0	6	5/13/2007	27.0	4	0.0	-2
LGP-09	2	2	E4	LGP-09_2_2_E4	4/12/2007	25.6	6	5/13/2007	25.6	6	0.0	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-09	2	2	E5	LGP-09_2_2_E5	4/12/2007	24.9	4	5/13/2007	24.9	6	0.0	2
LGP-09	2	2	F1	LGP-09_2_2_F1	4/12/2007	25.2	4	5/13/2007	25.2	6	0.0	2
LGP-09	2	2	F2	LGP-09_2_2_F2	4/12/2007	20.9	4	5/13/2007	20.9	2	0.0	-2
LGP-09	2	2	F3	LGP-09_2_2_F3	4/12/2007	25.6	6	5/13/2007	25.8	8	0.2	2
LGP-09	2	2	F4	LGP-09_2_2_F4	4/12/2007	24.0	6	5/13/2007	24.0	4	0.0	-2
LGP-09	2	2	F5	LGP-09_2_2_F5	4/12/2007	22.9	4	5/13/2007	22.9	4	0.0	0
LGP-09	2	2	G1	LGP-09_2_2_G1	4/12/2007	25.2	4	5/13/2007	25.2	6	0.0	2
LGP-09	2	2	G2	LGP-09_2_2_G2	4/12/2007	25.2	6	5/13/2007	25.4	6	0.2	0
LGP-09	2	2	G3	LGP-09_2_2_G3	4/12/2007	25.9	6	5/13/2007	26.1	6	0.2	0
LGP-09	2	2	G4	LGP-09_2_2_G4	4/12/2007	25.8	6	5/13/2007	25.8	6	0.0	0
LGP-09	2	2	G5	LGP-09_2_2_G5	4/12/2007	24.2	4	5/13/2007	24.2	6	0.0	2
LGP-09	2	2	H1	LGP-09_2_2_H1	4/12/2007	25.6	4	5/13/2007	25.6	6	0.0	2
LGP-09	2	2	H2	LGP-09_2_2_H2	4/12/2007	25.2	4	5/13/2007	25.3	6	0.1	2
LGP-09	2	2	H3	LGP-09_2_2_H3	4/12/2007	26.4	6	5/13/2007	26.4	4	0.0	-2
LGP-09	2	2	H4	LGP-09_2_2_H4	4/12/2007	27.6	8	5/13/2007	27.6	8	0.0	0
LGP-09	2	2	H5	LGP-09_2_2_H5	4/12/2007	24.3	4	5/13/2007	24.3	6	0.0	2
LGP-09	2	3	I1	LGP-09_2_3_I1	4/12/2007	23.7	4	5/13/2007	23.8	4	0.1	0
LGP-09	2	3	I2	LGP-09_2_3_I2	4/12/2007	28.9	8	5/13/2007	28.9	8	0.0	0
LGP-09	2	3	I3	LGP-09_2_3_I3	4/12/2007	24.2	4	5/13/2007	24.2	4	0.0	0
LGP-09	2	3	I4	LGP-09_2_3_I4	4/12/2007	22.9	4	5/13/2007	22.9	4	0.0	0
LGP-09	2	3	I5	LGP-09_2_3_I5	4/12/2007	28.5	6	5/13/2007	28.5	8	0.0	2
LGP-09	2	3	J1	LGP-09_2_3_J1	4/12/2007	27.1	8	5/13/2007	27.1	6	0.0	-2
LGP-09	2	3	J2	LGP-09_2_3_J2	4/12/2007	26.7	6	5/13/2007	26.7	6	0.0	0
LGP-09	2	3	J3	LGP-09_2_3_J3	4/12/2007	25.1	6	5/13/2007	25.1	6	0.0	0
LGP-09	2	3	J4	LGP-09_2_3_J4	4/12/2007	27.6	6	5/13/2007	27.6	6	0.0	0
LGP-09	2	3	J5	LGP-09_2_3_J5	4/12/2007	25.6	4	5/13/2007	25.6	6	0.0	2
LGP-09	2	3	K1	LGP-09_2_3_K1	4/12/2007	26.1	6	5/13/2007	26.3	6	0.2	0
LGP-09	2	3	K2	LGP-09_2_3_K2	4/12/2007	22.4	4	5/13/2007	22.6	4	0.2	0
LGP-09	2	3	K3	LGP-09_2_3_K3	4/12/2007	23.4	4	5/13/2007	23.4	4	0.0	0
LGP-09	2	3	K4	LGP-09_2_3_K4	4/12/2007	22.4	4	5/13/2007	22.4	4	0.0	0
LGP-09	2	3	K5	LGP-09_2_3_K5	4/12/2007	22.0	4	5/13/2007	22.2	4	0.2	0
LGP-09	2	3	L1	LGP-09_2_3_L1	4/12/2007	22.9	4	5/13/2007	22.9	4	0.0	0
LGP-09	2	3	L2	LGP-09_2_3_L2	4/12/2007	26.1	6	5/13/2007	26.1	6	0.0	0
LGP-09	2	3	L3	LGP-09_2_3_L3	4/12/2007	22.0	4	5/13/2007	22.0	4	0.0	0
LGP-09	2	3	L4	LGP-09_2_3_L4	4/12/2007	27.5	6	5/13/2007	27.5	6	0.0	0
LGP-09	2	3	L5	LGP-09_2_3_L5	4/12/2007	25.7	6	5/13/2007	25.7	6	0.0	0
LGP-06	1	1	A1	LGP-06_1_1_A1	4/15/2007	23.8	4	5/14/2007	25.9	6	2.1	2
LGP-06	1	1	A2	LGP-06_1_1_A2	4/15/2007	23.8	4	5/14/2007	24.8	6	1.0	2
LGP-06	1	1	A3	LGP-06_1_1_A3	4/15/2007	21.6	4	5/14/2007	26.8	8	5.2	4
LGP-06	1	1	A4	LGP-06_1_1_A4	4/15/2007	24.7	4	5/14/2007	24.7	8	0.0	4
LGP-06	1	1	A5	LGP-06_1_1_A5	4/15/2007	20.3	4	5/14/2007	24.9	4	4.6	0
LGP-06	1	1	B1	LGP-06_1_1_B1	4/15/2007	24.5	4	5/14/2007	24.5	4	0.0	0
LGP-06	1	1	B2	LGP-06_1_1_B2	4/15/2007	25.9	6	5/14/2007	25.9	6	0.0	0
LGP-06	1	1	B3	LGP-06_1_1_B3	4/15/2007	21.3	4	5/14/2007	24.2	4	2.9	0
LGP-06	1	1	B4	LGP-06_1_1_B4	4/15/2007	26.3	6	5/14/2007	26.3	4	0.0	-2
LGP-06	1	1	B5	LGP-06_1_1_B5	4/15/2007	22.9	4	5/14/2007	26.4	6	3.5	2
LGP-06	1	1	C1	LGP-06_1_1_C1	4/15/2007	20.2	4	5/14/2007	26.9	6	6.7	2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-06	1	1	C2	LGP-06_1_1_C2	4/15/2007	25.6	4	5/14/2007	25.6	4	0.0	0
LGP-06	1	1	C3	LGP-06_1_1_C3	4/15/2007	28.6	6	5/14/2007	28.6	6	0.0	0
LGP-06	1	1	C4	LGP-06_1_1_C4	4/15/2007	27.7	8	5/14/2007	27.7	4	0.0	-4
LGP-06	1	1	C5	LGP-06_1_1_C5	4/15/2007	25.6	6	5/14/2007	25.6	4	0.0	-2
LGP-06	1	1	D1	LGP-06_1_1_D1	4/15/2007	25.3	6	5/14/2007	25.3	4	0.0	-2
LGP-06	1	1	D2	LGP-06_1_1_D2	4/15/2007	25.0	4	5/14/2007	25.1	6	0.1	2
LGP-06	1	1	D3	LGP-06_1_1_D3	4/15/2007	21.8	4	5/14/2007	26.1	6	4.3	2
LGP-06	1	1	D4	LGP-06_1_1_D4	4/15/2007	24.4	4	5/14/2007	25.8	4	1.4	0
LGP-06	1	1	D5	LGP-06_1_1_D5	4/15/2007	24.0	4	5/14/2007	26.0	6	2.0	2
LGP-06	1	2	E1	LGP-06_1_2_E1	4/15/2007	20.4	2	5/14/2007	30.7	8	10.3	6
LGP-06	1	2	E2	LGP-06_1_2_E2	4/15/2007	25.5	6	5/14/2007	25.5	4	0.0	-2
LGP-06	1	2	E3	LGP-06_1_2_E3	4/15/2007	24.9	6	5/14/2007	28.7	8	3.8	2
LGP-06	1	2	E4	LGP-06_1_2_E4	4/15/2007	28.1	8	5/14/2007	28.1	4	0.0	-4
LGP-06	1	2	E5	LGP-06_1_2_E5	4/15/2007	27.8	6	5/14/2007	27.8	4	0.0	-2
LGP-06	1	2	F1	LGP-06_1_2_F1	4/15/2007	24.4	4	5/14/2007	25.1	4	0.7	0
LGP-06	1	2	F2	LGP-06_1_2_F2	4/15/2007	24.1	4	5/14/2007	24.1	2	0.0	-2
LGP-06	1	2	F3	LGP-06_1_2_F3	4/15/2007	24.4	4	5/14/2007	24.4	4	0.0	0
LGP-06	1	2	F4	LGP-06_1_2_F4	4/15/2007	20.7	4	5/14/2007	22.5	6	1.8	2
LGP-06	1	2	F5	LGP-06_1_2_F5	4/15/2007	21.3	4	5/14/2007	23.2	4	1.9	0
LGP-06	1	2	G1	LGP-06_1_2_G1	4/15/2007	21.1	2	5/14/2007	21.1	6	0.0	4
LGP-06	1	2	G2	LGP-06_1_2_G2	4/15/2007	20.4	4	5/14/2007	26.4	6	6.0	2
LGP-06	1	2	G3	LGP-06_1_2_G3	4/15/2007	22.5	4	5/14/2007	24.5	4	2.0	0
LGP-06	1	2	G4	LGP-06_1_2_G4	4/15/2007	23.0	4	5/14/2007	26.3	6	3.3	2
LGP-06	1	2	G5	LGP-06_1_2_G5	4/15/2007	20.6	2	5/14/2007	20.6	4	0.0	2
LGP-06	1	2	H1	LGP-06_1_2_H1	4/15/2007	26.1	6	5/14/2007	26.1	4	0.0	-2
LGP-06	1	2	H2	LGP-06_1_2_H2	4/15/2007	20.6	2	5/14/2007	24.9	6	4.3	4
LGP-06	1	2	H3	LGP-06_1_2_H3	4/15/2007	22.0	4	5/14/2007	26.2	6	4.2	2
LGP-06	1	2	H4	LGP-06_1_2_H4	4/15/2007	20.5	2	5/14/2007	23.8	4	3.3	2
LGP-06	1	2	H5	LGP-06_1_2_H5	4/15/2007	20.5	2	5/14/2007	24.7	4	4.2	2
LGP-06	1	3	I1	LGP-06_1_3_I1	4/15/2007	25.1	4	5/14/2007	25.1	6	0.0	2
LGP-06	1	3	I2	LGP-06_1_3_I2	4/15/2007	28.8	6	5/14/2007	28.8	4	0.0	-2
LGP-06	1	3	I3	LGP-06_1_3_I3	4/15/2007	26.7	6	5/14/2007	26.7	6	0.0	0
LGP-06	1	3	I4	LGP-06_1_3_I4	4/15/2007	24.4	4	5/14/2007	24.4	6	0.0	2
LGP-06	1	3	I5	LGP-06_1_3_I5	4/15/2007	20.3	4	5/14/2007	23.6	4	3.3	0
LGP-06	1	3	J1	LGP-06_1_3_J1	4/15/2007	22.6	4	5/14/2007	24.4	6	1.8	2
LGP-06	1	3	J2	LGP-06_1_3_J2	4/15/2007	23.8	4	5/14/2007	26.6	4	2.8	0
LGP-06	1	3	J3	LGP-06_1_3_J3	4/15/2007	25.2	4	5/14/2007	25.2	4	0.0	0
LGP-06	1	3	J4	LGP-06_1_3_J4	4/15/2007	21.5	4	5/14/2007	22.9	4	1.4	0
LGP-06	1	3	J5	LGP-06_1_3_J5	4/15/2007	21.4	4	5/14/2007	22.1	6	0.7	2
LGP-06	1	3	K1	LGP-06_1_3_K1	4/15/2007	21.1	2	5/14/2007	21.3	4	0.2	2
LGP-06	1	3	K2	LGP-06_1_3_K2	4/15/2007	22.1	4	5/14/2007	22.1	4	0.0	0
LGP-06	1	3	K3	LGP-06_1_3_K3	4/15/2007	21.2	4	5/14/2007	21.2	4	0.0	0
LGP-06	1	3	K4	LGP-06_1_3_K4	4/15/2007	26.7	6	5/14/2007	26.7	4	0.0	-2
LGP-06	1	3	K5	LGP-06_1_3_K5	4/15/2007	25.1	6	5/14/2007	25.1	4	0.0	-2
LGP-06	1	3	L1	LGP-06_1_3_L1	4/15/2007	27.8	6	5/14/2007	27.8	4	0.0	-2
LGP-06	1	3	L2	LGP-06_1_3_L2	4/15/2007	26.9	6	5/14/2007	27.3	6	0.4	0
LGP-06	1	3	L3	LGP-06_1_3_L3	4/15/2007	24.2	6	5/14/2007	24.2	6	0.0	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-06	1	3	L4	LGP-06_1_3_L4	4/15/2007	25.1	4	5/14/2007	25.1	4	0.0	0
LGP-06	1	3	L5	LGP-06_1_3_L5	4/15/2007	28.4	8	5/14/2007	28.4	4	0.0	-4
LGP-06	2	1	A1	LGP-06_2_1_A1	4/15/2007	26.3	6	5/14/2007	26.3	4	0.0	-2
LGP-06	2	1	A2	LGP-06_2_1_A2	4/15/2007	24.7	4	5/14/2007	24.7	4	0.0	0
LGP-06	2	1	A3	LGP-06_2_1_A3	4/15/2007	27.0	8	5/14/2007	27.0	4	0.0	-4
LGP-06	2	1	A4	LGP-06_2_1_A4	4/15/2007	28.4	8	5/14/2007	28.4	4	0.0	-4
LGP-06	2	1	A5	LGP-06_2_1_A5	4/15/2007	25.6	6	5/14/2007	25.6	4	0.0	-2
LGP-06	2	1	B1	LGP-06_2_1_B1	4/15/2007	21.2	4	5/14/2007	24.1	4	2.9	0
LGP-06	2	1	B2	LGP-06_2_1_B2	4/15/2007	26.0	8	5/14/2007	26.0	6	0.0	-2
LGP-06	2	1	B3	LGP-06_2_1_B3	4/15/2007	24.6	4	5/14/2007	24.6	2	0.0	-2
LGP-06	2	1	B4	LGP-06_2_1_B4	4/15/2007	24.0	4	5/14/2007	25.7	6	1.7	2
LGP-06	2	1	B5	LGP-06_2_1_B5	4/15/2007	26.9	6	5/14/2007	26.9	4	0.0	-2
LGP-06	2	1	C1	LGP-06_2_1_C1	4/15/2007	27.1	6	5/14/2007	27.1	2	0.0	-4
LGP-06	2	1	C2	LGP-06_2_1_C2	4/15/2007	20.9	4	5/14/2007	25.6	8	4.8	4
LGP-06	2	1	C3	LGP-06_2_1_C3	4/15/2007	24.8	6	5/14/2007	28.2	8	3.4	2
LGP-06	2	1	C4	LGP-06_2_1_C4	4/15/2007	20.4	4	5/14/2007	27.4	8	7.0	4
LGP-06	2	1	C5	LGP-06_2_1_C5	4/15/2007	20.6	4	5/14/2007	25.3	6	4.7	2
LGP-06	2	1	D1	LGP-06_2_1_D1	4/15/2007	21.7	4	5/14/2007	24.8	6	3.1	2
LGP-06	2	1	D2	LGP-06_2_1_D2	4/15/2007	24.8	4	5/14/2007	25.6	6	0.8	2
LGP-06	2	1	D3	LGP-06_2_1_D3	4/15/2007	26.2	6	5/14/2007	26.2	4	0.0	-2
LGP-06	2	1	D4	LGP-06_2_1_D4	4/15/2007	26.1	4	5/14/2007	26.1	4	0.0	0
LGP-06	2	1	D5	LGP-06_2_1_D5	4/15/2007	26.0	6	5/14/2007	26.0	4	0.0	-2
LGP-06	2	2	E1	LGP-06_2_2_E1	4/15/2007	25.1	6	5/14/2007	25.1	2	0.0	-4
LGP-06	2	2	E2	LGP-06_2_2_E2	4/15/2007	20.4	4	5/14/2007	25.8	4	5.4	0
LGP-06	2	2	E3	LGP-06_2_2_E3	4/15/2007	26.4	6	5/14/2007	26.4	4	0.0	-2
LGP-06	2	2	E4	LGP-06_2_2_E4	4/15/2007	24.5	4	5/14/2007	27.9	6	3.4	2
LGP-06	2	2	E5	LGP-06_2_2_E5	4/15/2007	23.8	4	5/14/2007	27.0	6	3.2	2
LGP-06	2	2	F1	LGP-06_2_2_F1	4/15/2007	22.1	4	5/14/2007	24.2	6	2.1	2
LGP-06	2	2	F2	LGP-06_2_2_F2	4/15/2007	21.7	4	5/14/2007	24.4	6	2.7	2
LGP-06	2	2	F3	LGP-06_2_2_F3	4/15/2007	26.4	4	5/14/2007	26.4	4	0.0	0
LGP-06	2	2	F4	LGP-06_2_2_F4	4/15/2007	25.8	6	5/14/2007	25.8	4	0.0	-2
LGP-06	2	2	F5	LGP-06_2_2_F5	4/15/2007	21.7	6	5/14/2007	21.7	4	0.0	-2
LGP-06	2	2	G1	LGP-06_2_2_G1	4/15/2007	21.2	4	5/14/2007	21.2	4	0.0	0
LGP-06	2	2	G2	LGP-06_2_2_G2	4/15/2007	21.5	4	5/14/2007	21.5	4	0.0	0
LGP-06	2	2	G3	LGP-06_2_2_G3	4/15/2007	24.7	4	5/14/2007	24.7	4	0.0	0
LGP-06	2	2	G4	LGP-06_2_2_G4	4/15/2007	27.3	6	5/14/2007	27.3	4	0.0	-2
LGP-06	2	2	G5	LGP-06_2_2_G5	4/15/2007	22.1	4	5/14/2007	22.1	2	0.0	-2
LGP-06	2	2	H1	LGP-06_2_2_H1	4/15/2007	22.5	4	5/14/2007	25.1	6	2.6	2
LGP-06	2	2	H2	LGP-06_2_2_H2	4/15/2007	25.3	6	5/14/2007	25.3	4	0.0	-2
LGP-06	2	2	H3	LGP-06_2_2_H3	4/15/2007	29.3	6	5/14/2007	29.3	4	0.0	-2
LGP-06	2	2	H4	LGP-06_2_2_H4	4/15/2007	24.1	4	5/14/2007	24.1	4	0.0	0
LGP-06	2	2	H5	LGP-06_2_2_H5	4/15/2007	24.7	4	5/14/2007	24.7	4	0.0	0
LGP-06	2	3	I1	LGP-06_2_3_I1	4/15/2007	31.1	8	5/14/2007	31.1	4	0.0	-4
LGP-06	2	3	I2	LGP-06_2_3_I2	4/15/2007	25.9	4	5/14/2007	27.6	6	1.7	2
LGP-06	2	3	I3	LGP-06_2_3_I3	4/15/2007	28.2	8	5/14/2007	28.2	6	0.0	-2
LGP-06	2	3	I4	LGP-06_2_3_I4	4/15/2007	21.2	4	5/14/2007	23.9	6	2.7	2
LGP-06	2	3	I5	LGP-06_2_3_I5	4/15/2007	26.6	6	5/14/2007	26.6	2	0.0	-4

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-06	2	3	J1	LGP-06_2_3_J1	4/15/2007	23.9	4	5/14/2007	23.9	2	0.0	-2
LGP-06	2	3	J2	LGP-06_2_3_J2	4/15/2007	27.1	4	5/14/2007	27.1	4	0.0	0
LGP-06	2	3	J3	LGP-06_2_3_J3	4/15/2007	23.8	6	5/14/2007	24.9	6	1.1	0
LGP-06	2	3	J4	LGP-06_2_3_J4	4/15/2007	22.8	4	5/14/2007	22.8	4	0.0	0
LGP-06	2	3	J5	LGP-06_2_3_J5	4/15/2007	23.0	4	5/14/2007	23.0	4	0.0	0
LGP-06	2	3	K1	LGP-06_2_3_K1	4/15/2007	21.7	2	5/14/2007	21.7	4	0.0	2
LGP-06	2	3	K2	LGP-06_2_3_K2	4/15/2007	21.2	4	5/14/2007	23.1	4	2.0	0
LGP-06	2	3	K3	LGP-06_2_3_K3	4/15/2007	21.5	4	5/14/2007	21.5	4	0.0	0
LGP-06	2	3	K4	LGP-06_2_3_K4	4/15/2007	21.3	4	5/14/2007	26.2	6	4.9	2
LGP-06	2	3	K5	LGP-06_2_3_K5	4/15/2007	20.9	4	5/14/2007	24.9	6	4.0	2
LGP-06	2	3	L1	LGP-06_2_3_L1	4/15/2007	21.3	4	5/14/2007	27.5	8	6.2	4
LGP-06	2	3	L2	LGP-06_2_3_L2	4/15/2007	27.9	8	5/14/2007	27.9	6	0.0	-2
LGP-06	2	3	L3	LGP-06_2_3_L3	4/15/2007	23.1	4	5/14/2007	24.2	10	1.1	6
LGP-06	2	3	L4	LGP-06_2_3_L4	4/15/2007	23.1	4	5/14/2007	24.3	10	1.2	6
LGP-06	2	3	L5	LGP-06_2_3_L5	4/15/2007	24.4	6	5/14/2007	28.2	10	3.8	4
LGP-01	1	1	A1	LGP-01_1_1_A1	4/14/2007	26.8	6	5/15/2007	27.4	6	0.7	0
LGP-01	1	1	A2	LGP-01_1_1_A2	4/14/2007	27.1	8	5/15/2007	27.9	8	0.8	0
LGP-01	1	1	A3	LGP-01_1_1_A3	4/14/2007	23.7	4	5/15/2007	24.4	4	0.7	0
LGP-01	1	1	A4	LGP-01_1_1_A4	4/14/2007	23.7	6	5/15/2007	24.6	6	0.9	0
LGP-01	1	1	A5	LGP-01_1_1_A5	4/14/2007	26.1	6	5/15/2007	26.1	4	0.0	-2
LGP-01	1	1	B1	LGP-01_1_1_B1	4/14/2007	24.1	4	5/15/2007	24.3	4	0.2	0
LGP-01	1	1	B2	LGP-01_1_1_B2	4/14/2007	23.5	4	5/15/2007	23.5	6	0.0	2
LGP-01	1	1	B3	LGP-01_1_1_B3	4/14/2007	24.9	6	5/15/2007	25.1	6	0.1	0
LGP-01	1	1	B4	LGP-01_1_1_B4	4/14/2007	21.2	4	5/15/2007	21.2	2	0.0	-2
LGP-01	1	1	B5	LGP-01_1_1_B5	4/14/2007	26.4	6	5/15/2007	27.0	6	0.5	0
LGP-01	1	1	C1	LGP-01_1_1_C1	4/14/2007	26.1	8	5/15/2007	26.9	8	0.8	0
LGP-01	1	1	C2	LGP-01_1_1_C2	4/14/2007	26.7	6	5/15/2007	26.9	6	0.2	0
LGP-01	1	1	C3	LGP-01_1_1_C3	4/14/2007	25.9	8	5/15/2007	26.6	6	0.7	-2
LGP-01	1	1	C4	LGP-01_1_1_C4	4/14/2007	23.8	4	5/15/2007	24.0	4	0.2	0
LGP-01	1	1	C5	LGP-01_1_1_C5	4/14/2007	25.2	4	5/15/2007	25.4	4	0.2	0
LGP-01	1	1	D1	LGP-01_1_1_D1	4/14/2007	24.5	6	5/15/2007	25.1	6	0.6	0
LGP-01	1	1	D2	LGP-01_1_1_D2	4/14/2007	26.6	4	5/15/2007	26.6	6	0.0	2
LGP-01	1	1	D3	LGP-01_1_1_D3	4/14/2007	27.7	6	5/15/2007	28.6	6	0.9	0
LGP-01	1	1	D4	LGP-01_1_1_D4	4/14/2007	25.4	6	5/15/2007	25.6	6	0.3	0
LGP-01	1	1	D5	LGP-01_1_1_D5	4/14/2007	23.2	6	5/15/2007	23.2	4	0.0	-2
LGP-01	1	2	E1	LGP-01_1_2_E1	4/14/2007	23.1	4	5/15/2007	23.1	4	0.0	0
LGP-01	1	2	E2	LGP-01_1_2_E2	4/14/2007	25.3	4	5/15/2007	25.3	6	0.0	2
LGP-01	1	2	E3	LGP-01_1_2_E3	4/14/2007	22.3	4	5/15/2007	22.6	4	0.3	0
LGP-01	1	2	E4	LGP-01_1_2_E4	4/14/2007	23.0	4	5/15/2007	23.0	4	0.0	0
LGP-01	1	2	E5	LGP-01_1_2_E5	4/14/2007	28.2	6	5/15/2007	28.2	4	0.0	-2
LGP-01	1	2	F1	LGP-01_1_2_F1	4/14/2007	27.7	8	5/15/2007	29.9	6	2.2	-2
LGP-01	1	2	F2	LGP-01_1_2_F2	4/14/2007	27.2	6	5/15/2007	27.2	6	0.0	0
LGP-01	1	2	F3	LGP-01_1_2_F3	4/14/2007	28.7	8	5/15/2007	28.7	6	0.0	-2
LGP-01	1	2	F4	LGP-01_1_2_F4	4/14/2007	22.5	4	5/15/2007	28.3	8	5.9	4
LGP-01	1	2	F5	LGP-01_1_2_F5	4/14/2007	24.4	6	5/15/2007	27.9	8	3.5	2
LGP-01	1	2	G1	LGP-01_1_2_G1	4/14/2007	25.4	6	5/15/2007	27.2	6	1.9	0
LGP-01	1	2	G2	LGP-01_1_2_G2	4/14/2007	25.3	6	5/15/2007	28.5	8	3.2	2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-01	1	2	G3	LGP-01_1_2_G3	4/14/2007	31.8	12	5/15/2007	32.1	10	0.4	-2
LGP-01	1	2	G4	LGP-01_1_2_G4	4/14/2007	24.4	4	5/15/2007	24.4	4	0.0	0
LGP-01	1	2	G5	LGP-01_1_2_G5	4/14/2007	27.5	6	5/15/2007	27.5	8	0.0	2
LGP-01	1	2	H1	LGP-01_1_2_H1	4/14/2007	25.2	4	5/15/2007	25.4	4	0.3	0
LGP-01	1	2	H2	LGP-01_1_2_H2	4/14/2007	22.5	4	5/15/2007	23.2	4	0.7	0
LGP-01	1	2	H3	LGP-01_1_2_H3	4/14/2007	20.7	4	5/15/2007	20.8	4	0.2	0
LGP-01	1	2	H4	LGP-01_1_2_H4	4/14/2007	23.7	4	5/15/2007	33.8	6	10.1	2
LGP-01	1	2	H5	LGP-01_1_2_H5	4/14/2007	27.3	6	5/15/2007	27.4	6	0.1	0
LGP-01	1	3	I1	LGP-01_1_3_I1	4/14/2007	26.7	6	5/15/2007	26.9	6	0.2	0
LGP-01	1	3	I2	LGP-01_1_3_I2	4/14/2007	21.3	4	5/15/2007	21.3	6	0.0	2
LGP-01	1	3	I3	LGP-01_1_3_I3	4/14/2007	27.6	8	5/15/2007	27.8	8	0.2	0
LGP-01	1	3	I4	LGP-01_1_3_I4	4/14/2007	25.2	6	5/15/2007	25.8	6	0.5	0
LGP-01	1	3	I5	LGP-01_1_3_I5	4/14/2007	23.1	6	5/15/2007	23.1	6	0.0	0
LGP-01	1	3	J1	LGP-01_1_3_J1	4/14/2007	23.9	4	5/15/2007	24.2	4	0.3	0
LGP-01	1	3	J2	LGP-01_1_3_J2	4/14/2007	26.0	6	5/15/2007	26.0	6	0.0	0
LGP-01	1	3	J3	LGP-01_1_3_J3	4/14/2007	24.4	4	5/15/2007	24.6	6	0.2	2
LGP-01	1	3	J4	LGP-01_1_3_J4	4/14/2007	27.9	6	5/15/2007	28.0	6	0.1	0
LGP-01	1	3	J5	LGP-01_1_3_J5	4/14/2007	25.6	6	5/15/2007	25.8	6	0.2	0
LGP-01	1	3	K1	LGP-01_1_3_K1	4/14/2007	23.9	4	5/15/2007	23.9	4	0.0	0
LGP-01	1	3	K2	LGP-01_1_3_K2	4/14/2007	21.5	4	5/15/2007	21.5	4	0.0	0
LGP-01	1	3	K3	LGP-01_1_3_K3	4/14/2007	24.0	4	5/15/2007	24.0	4	0.0	0
LGP-01	1	3	K4	LGP-01_1_3_K4	4/14/2007	21.8	4	5/15/2007	21.9	4	0.2	0
LGP-01	1	3	K5	LGP-01_1_3_K5	4/14/2007	21.6	4	5/15/2007	21.6	4	0.0	0
LGP-01	1	3	L1	LGP-01_1_3_L1	4/14/2007	25.4	6	5/15/2007	25.4	4	0.0	-2
LGP-01	1	3	L2	LGP-01_1_3_L2	4/14/2007	26.0	6	5/15/2007	26.4	6	0.4	0
LGP-01	1	3	L3	LGP-01_1_3_L3	4/14/2007	24.6	4	5/15/2007	24.6	4	0.0	0
LGP-01	1	3	L4	LGP-01_1_3_L4	4/14/2007	31.1	10	5/15/2007	31.1	10	0.0	0
LGP-01	1	3	L5	LGP-01_1_3_L5	4/14/2007	25.4	6	5/15/2007	28.4	4	3.0	-2
LGP-01	2	1	A1	LGP-01_2_1_A1	4/14/2007	27.4	6	5/15/2007	27.5	6	0.1	0
LGP-01	2	1	A2	LGP-01_2_1_A2	4/14/2007	20.3	4	5/15/2007	20.3	4	0.0	0
LGP-01	2	1	A3	LGP-01_2_1_A3	4/14/2007	22.2	4	5/15/2007	22.6	4	0.4	0
LGP-01	2	1	A4	LGP-01_2_1_A4	4/14/2007	22.8	4	5/15/2007	22.8	4	0.0	0
LGP-01	2	1	A5	LGP-01_2_1_A5	4/14/2007	27.6	6	5/15/2007	27.6	6	0.0	0
LGP-01	2	1	B1	LGP-01_2_1_B1	4/14/2007	20.9	4	5/15/2007	20.9	2	0.0	-2
LGP-01	2	1	B2	LGP-01_2_1_B2	4/14/2007	27.1	6	5/15/2007	27.2	6	0.1	0
LGP-01	2	1	B3	LGP-01_2_1_B3	4/14/2007	22.5	4	5/15/2007	22.7	4	0.1	0
LGP-01	2	1	B4	LGP-01_2_1_B4	4/14/2007	21.8	4	5/15/2007	21.8	6	0.0	2
LGP-01	2	1	B5	LGP-01_2_1_B5	4/14/2007	23.5	4	5/15/2007	23.5	4	0.0	0
LGP-01	2	1	C1	LGP-01_2_1_C1	4/14/2007	20.8	4	5/15/2007	20.8	2	0.0	-2
LGP-01	2	1	C2	LGP-01_2_1_C2	4/14/2007	25.1	4	5/15/2007	25.3	4	0.2	0
LGP-01	2	1	C3	LGP-01_2_1_C3	4/14/2007	26.7	6	5/15/2007	26.9	6	0.2	0
LGP-01	2	1	C4	LGP-01_2_1_C4	4/14/2007	25.6	6	5/15/2007	25.6	4	0.0	-2
LGP-01	2	1	C5	LGP-01_2_1_C5	4/14/2007	22.2	4	5/15/2007	25.6	6	3.3	2
LGP-01	2	1	D1	LGP-01_2_1_D1	4/14/2007	22.0	4	5/15/2007	22.0	4	0.0	0
LGP-01	2	1	D2	LGP-01_2_1_D2	4/14/2007	21.9	4	5/15/2007	21.9	4	0.0	0
LGP-01	2	1	D3	LGP-01_2_1_D3	4/14/2007	20.2	4	5/15/2007	20.2	2	0.0	-2
LGP-01	2	1	D4	LGP-01_2_1_D4	4/14/2007	21.0	4	5/15/2007	21.0	4	0.0	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-01	2	1	D5	LGP-01_2_1_D5	4/14/2007	26.9	8	5/15/2007	27.0	6	0.1	-2
LGP-01	2	2	E1	LGP-01_2_2_E1	4/14/2007	24.3	4	5/15/2007	25.0	6	0.7	2
LGP-01	2	2	E2	LGP-01_2_2_E2	4/14/2007	22.8	4	5/15/2007	22.8	4	0.0	0
LGP-01	2	2	E3	LGP-01_2_2_E3	4/14/2007	26.3	6	5/15/2007	26.3	6	0.0	0
LGP-01	2	2	E4	LGP-01_2_2_E4	4/14/2007	24.9	6	5/15/2007	24.9	6	0.0	0
LGP-01	2	2	E5	LGP-01_2_2_E5	4/14/2007	25.4	4	5/15/2007	25.4	4	0.0	0
LGP-01	2	2	F1	LGP-01_2_2_F1	4/14/2007	22.1	4	5/15/2007	22.1	4	0.0	0
LGP-01	2	2	F2	LGP-01_2_2_F2	4/14/2007	22.8	4	5/15/2007	22.8	4	0.0	0
LGP-01	2	2	F3	LGP-01_2_2_F3	4/14/2007	27.7	8	5/15/2007	27.8	8	0.1	0
LGP-01	2	2	F4	LGP-01_2_2_F4	4/14/2007	22.4	4	5/15/2007	22.4	4	0.0	0
LGP-01	2	2	F5	LGP-01_2_2_F5	4/14/2007	20.9	4	5/15/2007	21.1	4	0.1	0
LGP-01	2	2	G1	LGP-01_2_2_G1	4/14/2007	24.9	6	5/15/2007	25.0	6	0.1	0
LGP-01	2	2	G2	LGP-01_2_2_G2	4/14/2007	23.1	4	5/15/2007	23.1	4	0.0	0
LGP-01	2	2	G3	LGP-01_2_2_G3	4/14/2007	24.2	6	5/15/2007	24.3	6	0.1	0
LGP-01	2	2	G4	LGP-01_2_2_G4	4/14/2007	26.4	6	5/15/2007	26.4	6	0.0	0
LGP-01	2	2	G5	LGP-01_2_2_G5	4/14/2007	26.4	6	5/15/2007	26.5	6	0.1	0
LGP-01	2	2	H1	LGP-01_2_2_H1	4/14/2007	24.3	4	5/15/2007	24.3	6	0.0	2
LGP-01	2	2	H2	LGP-01_2_2_H2	4/14/2007	26.1	6	5/15/2007	26.1	6	0.0	0
LGP-01	2	2	H3	LGP-01_2_2_H3	4/14/2007	27.0	6	5/15/2007	27.0	8	0.0	2
LGP-01	2	2	H4	LGP-01_2_2_H4	4/14/2007	25.7	6	5/15/2007	25.7	6	0.0	0
LGP-01	2	2	H5	LGP-01_2_2_H5	4/14/2007	26.0	8	5/15/2007	26.0	6	0.0	-2
LGP-01	2	3	I1	LGP-01_2_3_I1	4/14/2007	23.0	4	5/15/2007	23.0	4	0.0	0
LGP-01	2	3	I2	LGP-01_2_3_I2	4/14/2007	24.9	6	5/15/2007	24.9	4	0.0	-2
LGP-01	2	3	I3	LGP-01_2_3_I3	4/14/2007	22.9	4	5/15/2007	22.9	4	0.0	0
LGP-01	2	3	I4	LGP-01_2_3_I4	4/14/2007	22.6	4	5/15/2007	22.8	4	0.2	0
LGP-01	2	3	I5	LGP-01_2_3_I5	4/14/2007	22.3	4	5/15/2007	22.3	4	0.0	0
LGP-01	2	3	J1	LGP-01_2_3_J1	4/14/2007	22.0	4	5/15/2007	22.0	4	0.0	0
LGP-01	2	3	J2	LGP-01_2_3_J2	4/14/2007	30.7	10	5/15/2007	30.7	8	0.0	-2
LGP-01	2	3	J3	LGP-01_2_3_J3	4/14/2007	24.5	6	5/15/2007	24.5	6	0.0	0
LGP-01	2	3	J4	LGP-01_2_3_J4	4/14/2007	25.9	6	5/15/2007	25.9	6	0.1	0
LGP-01	2	3	J5	LGP-01_2_3_J5	4/14/2007	25.3	4	5/15/2007	25.4	4	0.1	0
LGP-01	2	3	K1	LGP-01_2_3_K1	4/14/2007	22.2	4	5/15/2007	22.2	4	0.0	0
LGP-01	2	3	K2	LGP-01_2_3_K2	4/14/2007	26.7	6	5/15/2007	26.7	6	0.0	0
LGP-01	2	3	K3	LGP-01_2_3_K3	4/14/2007	25.6	8	5/15/2007	25.6	6	0.0	-2
LGP-01	2	3	K4	LGP-01_2_3_K4	4/14/2007	26.0	6	5/15/2007	26.0	6	0.0	0
LGP-01	2	3	K5	LGP-01_2_3_K5	4/14/2007	21.4	4	5/15/2007	21.4	4	0.0	0
LGP-01	2	3	L1	LGP-01_2_3_L1	4/14/2007	24.4	6	5/15/2007	24.4	6	0.0	0
LGP-01	2	3	L2	LGP-01_2_3_L2	4/14/2007	21.5	2	5/15/2007	21.5	4	0.0	2
LGP-01	2	3	L3	LGP-01_2_3_L3	4/14/2007	20.5	4	5/15/2007	20.6	4	0.1	0
LGP-01	2	3	L4	LGP-01_2_3_L4	4/14/2007	25.9	4	5/15/2007	25.9	4	0.0	0
LGP-01	2	3	L5	LGP-01_2_3_L5	4/14/2007	20.7	4	5/15/2007	20.7	2	0.0	-2
LGP-01	D	1	A1	LGP-01_D_1_A1	4/14/2007	25.0	6	5/15/2007	25.2	6	0.2	0
LGP-01	D	1	A2	LGP-01_D_1_A2	4/14/2007	24.9	6	5/15/2007	25.0	6	0.0	0
LGP-01	D	1	A3	LGP-01_D_1_A3	4/14/2007	25.5	6	5/15/2007	25.5	6	0.0	0
LGP-01	D	1	A4	LGP-01_D_1_A4	4/14/2007	26.3	6	5/15/2007	26.9	6	0.6	0
LGP-01	D	1	A5	LGP-01_D_1_A5	4/14/2007	25.1	4	5/15/2007	25.2	4	0.1	0
LGP-01	D	1	B1	LGP-01_D_1_B1	4/14/2007	27.4	6	5/15/2007	27.4	6	0.0	0

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-01	D	1	B2	LGP-01_D_1_B2	4/14/2007	26.1	6	5/15/2007	26.3	6	0.2	0
LGP-01	D	1	B3	LGP-01_D_1_B3	4/14/2007	25.0	6	5/15/2007	25.0	4	0.0	-2
LGP-01	D	1	B4	LGP-01_D_1_B4	4/14/2007	23.0	4	5/15/2007	23.0	4	0.0	0
LGP-01	D	1	B5	LGP-01_D_1_B5	4/14/2007	26.2	6	5/15/2007	26.2	6	0.0	0
LGP-01	D	1	C1	LGP-01_D_1_C1	4/14/2007	24.9	6	5/15/2007	25.2	6	0.3	0
LGP-01	D	1	C2	LGP-01_D_1_C2	4/14/2007	20.1	4	5/15/2007	20.2	4	0.1	0
LGP-01	D	1	C3	LGP-01_D_1_C3	4/14/2007	24.5	4	5/15/2007	25.0	4	0.5	0
LGP-01	D	1	C4	LGP-01_D_1_C4	4/14/2007	22.5	4	5/15/2007	22.5	4	0.0	0
LGP-01	D	1	C5	LGP-01_D_1_C5	4/14/2007	20.8	4	5/15/2007	20.8	4	0.0	0
LGP-01	D	1	D1	LGP-01_D_1_D1	4/14/2007	24.4	4	5/15/2007	29.2	4	4.8	0
LGP-01	D	1	D2	LGP-01_D_1_D2	4/14/2007	21.3	4	5/15/2007	21.3	4	0.0	0
LGP-01	D	1	D3	LGP-01_D_1_D3	4/14/2007	30.7	12	5/15/2007	30.7	12	0.0	0
LGP-01	D	1	D4	LGP-01_D_1_D4	4/14/2007	25.0	4	5/15/2007	25.1	4	0.1	0
LGP-01	D	1	D5	LGP-01_D_1_D5	4/14/2007	28.5	6	5/15/2007	28.5	6	0.0	0
LGP-01	D	2	E1	LGP-01_D_2_E1	4/14/2007	26.7	6	5/15/2007	26.7	8	0.0	2
LGP-01	D	2	E2	LGP-01_D_2_E2	4/14/2007	24.8	4	5/15/2007	27.0	4	2.2	0
LGP-01	D	2	E3	LGP-01_D_2_E3	4/14/2007	25.2	6	5/15/2007	25.2	4	0.0	-2
LGP-01	D	2	E4	LGP-01_D_2_E4	4/14/2007	23.8	4	5/15/2007	24.6	4	0.8	0
LGP-01	D	2	E5	LGP-01_D_2_E5	4/14/2007	24.0	4	5/15/2007	24.0	4	0.0	0
LGP-01	D	2	F1	LGP-01_D_2_F1	4/14/2007	21.0	4	5/15/2007	21.0	4	0.0	0
LGP-01	D	2	F2	LGP-01_D_2_F2	4/14/2007	22.3	4	5/15/2007	22.5	4	0.1	0
LGP-01	D	2	F3	LGP-01_D_2_F3	4/14/2007	21.8	4	5/15/2007	21.8	4	0.0	0
LGP-01	D	2	F4	LGP-01_D_2_F4	4/14/2007	24.7	4	5/15/2007	24.7	6	0.0	2
LGP-01	D	2	F5	LGP-01_D_2_F5	4/14/2007	24.4	4	5/15/2007	24.4	6	0.0	2
LGP-01	D	2	G1	LGP-01_D_2_G1	4/14/2007	21.1	4	5/15/2007	21.1	2	0.0	-2
LGP-01	D	2	G2	LGP-01_D_2_G2	4/14/2007	22.2	4	5/15/2007	22.2	4	0.0	0
LGP-01	D	2	G3	LGP-01_D_2_G3	4/14/2007	25.9	4	5/15/2007	25.9	6	0.0	2
LGP-01	D	2	G4	LGP-01_D_2_G4	4/14/2007	20.8	4	5/15/2007	20.9	4	0.1	0
LGP-01	D	2	G5	LGP-01_D_2_G5	4/14/2007	24.0	4	5/15/2007	24.0	4	0.0	0
LGP-01	D	2	H1	LGP-01_D_2_H1	4/14/2007	24.8	6	5/15/2007	24.8	6	0.0	0
LGP-01	D	2	H2	LGP-01_D_2_H2	4/14/2007	24.8	6	5/15/2007	24.8	6	0.0	0
LGP-01	D	2	H3	LGP-01_D_2_H3	4/14/2007	26.0	6	5/15/2007	26.0	6	0.0	0
LGP-01	D	2	H4	LGP-01_D_2_H4	4/14/2007	26.8	6	5/15/2007	27.2	6	0.4	0
LGP-01	D	2	H5	LGP-01_D_2_H5	4/14/2007	24.7	4	5/15/2007	24.7	6	0.0	2
LGP-01	D	3	I1	LGP-01_D_3_I1	4/14/2007	27.7	8	5/15/2007	27.8	8	0.1	0
LGP-01	D	3	I2	LGP-01_D_3_I2	4/14/2007	25.8	6	5/15/2007	25.8	4	0.0	-2
LGP-01	D	3	I3	LGP-01_D_3_I3	4/14/2007	25.1	6	5/15/2007	25.1	4	0.0	-2
LGP-01	D	3	I4	LGP-01_D_3_I4	4/14/2007	22.1	4	5/15/2007	22.1	4	0.0	0
LGP-01	D	3	I5	LGP-01_D_3_I5	4/14/2007	26.5	6	5/15/2007	27.0	6	0.5	0
LGP-01	D	3	J1	LGP-01_D_3_J1	4/14/2007	26.7	4	5/15/2007	26.7	4	0.0	0
LGP-01	D	3	J2	LGP-01_D_3_J2	4/14/2007	24.6	4	5/15/2007	24.6	6	0.0	2
LGP-01	D	3	J3	LGP-01_D_3_J3	4/14/2007	24.6	6	5/15/2007	24.6	6	0.0	0
LGP-01	D	3	J4	LGP-01_D_3_J4	4/14/2007	27.2	8	5/15/2007	27.2	6	0.0	-2
LGP-01	D	3	J5	LGP-01_D_3_J5	4/14/2007	24.9	6	5/15/2007	24.9	6	0.0	0
LGP-01	D	3	K1	LGP-01_D_3_K1	4/14/2007	21.2	2	5/15/2007	21.3	4	0.1	2
LGP-01	D	3	K2	LGP-01_D_3_K2	4/14/2007	24.6	6	5/15/2007	24.7	4	0.1	-2
LGP-01	D	3	K3	LGP-01_D_3_K3	4/14/2007	24.6	4	5/15/2007	24.8	6	0.2	2

Table 1
Widths and Weights of Clams

Station ID	Array #	Cage #	Position #	Code	Pre Test			Post Test			Difference	
					Deployed Date	Shell Length (in)	Weight (g)	Collected Date	Shell Length (in)	Weight (g)	Shell Length	Weight
LGP-01	D	3	K4	LGP-01_D_3_K4	4/14/2007	21.1	4	5/15/2007	21.2	4	0.0	0
LGP-01	D	3	K5	LGP-01_D_3_K5	4/14/2007	22.0	4	5/15/2007	22.0	4	0.0	0
LGP-01	D	3	L1	LGP-01_D_3_L1	4/14/2007	24.9	4	5/15/2007	24.9	6	0.0	2
LGP-01	D	3	L2	LGP-01_D_3_L2	4/14/2007	25.7	4	5/15/2007	25.7	4	0.0	0
LGP-01	D	3	L3	LGP-01_D_3_L3	4/14/2007	23.7	4	5/15/2007	23.7	4	0.0	0
LGP-01	D	3	L4	LGP-01_D_3_L4	4/14/2007	26.1	6	5/15/2007	26.2	4	0.1	-2
LGP-01	D	3	L5	LGP-01_D_3_L5	4/14/2007	27.2	8	5/15/2007	27.2	6	0.0	-2
										Average	0.4	0.1

Table 2
Summary of Chemical and Conventional Analysis on a Wet-Weight Basis

Sample Category Station Location: Sample Identification: Sample Date: Sample matrix:	2007 Bivalve Study BOT-A BOT-A 4/12/2007 Tissue	2007 Bivalve Study BOT-B BOT-B 4/12/2007 Tissue	2007 Bivalve Study CR-REF CR-REF-CB-1 5/15/2007 Tissue	2007 Bivalve Study LGP-01 LGP-01-CB-1 5/15/2007 Tissue	2007 Bivalve Study LGP-01 LGP-01-CB-2 5/15/2007 Tissue	2007 Bivalve Study LGP-01 LGP-01-CB-D 5/15/2007 Tissue	2007 Bivalve Study LGP-06 LGP-06-CB-1 5/14/2007 Tissue	2007 Bivalve Study LGP-06 LGP-06-CB-2 5/14/2007 Tissue	2007 Bivalve Study LGP-09 LGP-09-CB-1 5/13/2007 Tissue	2007 Bivalve Study LGP-09 LGP-09-CB-2 5/13/2007 Tissue	2007 Bivalve Study LGP-11 LGP-11-CB-1 5/12/2007 Tissue	2007 Bivalve Study LGP-11 LGP-11-CB-2 5/12/2007 Tissue	
Conventionals (%)													
Lipids	1.6	1.5	1.2	1.3	1.7	1.3	1.1	1.5	1.1	1.1	1.3	1.2	
Total solids	13.8	13.9	9.65	11.2	13.9	12.4	9.56	11.6	9.17	9.73	9.92	9.83	
Dioxin/Furan (ng/kg) (WW)													
2,3,7,8-TCDD	0.116 U	0.143 U	0.0363 U	0.0405 U	0.0497 U	0.0415 U	0.0366 U	0.0434 U	0.099 U	0.0628 U	0.0281 U	0.0258 U	
1,2,3,7,8-PeCDD	0.266 U	0.24 U	0.128 U	0.0729 U	0.101 U	0.0914 U	0.0852 U	0.0545 U	0.097 U	0.0684 U	0.0828 U	0.0541 U	
1,2,3,4,7,8-HxCDD	0.389 U	0.298 U	0.179 J	0.128 U	0.222 J	0.104 U	0.111 U	0.17 U	0.224 U	0.135 U	0.192 J	0.186 J	
1,2,3,6,7,8-HxCDD	0.381 U	0.288 U	0.12 U	0.128 U	0.107 U	0.101 U	0.111 U	0.239 U	0.221 U	0.14 U	0.11 U	0.106 U	
1,2,3,7,8,9-HxCDD	0.359 U	0.295 U	0.119 U	0.139 U	0.111 U	0.106 U	0.114 U	0.235 U	0.228 U	0.141 U	0.11 U	0.0995 U	
1,2,3,4,6,7,8-HpCDD	0.43 J	0.26 U	0.27 J	0.34 J	0.357 J	0.31 J	0.245 J	0.336 J	0.359 J	0.368 J	0.274 J	0.252 UJ	
OCDD	2.74 J	2.52 J	1.57 J	1.37 J	1.57 J	1.52 J	1.38 J	1.72 J	1.49 J	1.46 J	1.24 J	1.44 J	
2,3,7,8-TCDF	0.458	0.419	0.352	0.18 J	0.228 J	0.155 J	0.209 J	0.236 J	0.233 J	0.207 J	0.281 J	0.321 J	
1,2,3,7,8-PeCDF	0.208 U	0.238 U	0.0954 U	0.0927 U	0.131 U	0.0893 U	0.112 U	0.0776 U	0.15 U	0.071 U	0.0912 U	0.118 U	
2,3,4,7,8-PeCDF	0.187 U	0.225 U	0.0874 U	0.0867 U	0.113 U	0.0748 U	0.0971 U	0.0719 U	0.135 U	0.0595 U	0.0776 U	0.104 U	
1,2,3,4,7,8-HxCDF	0.159 U	0.14 U	0.0489 U	0.0405 U	0.0289 U	0.0307 U	0.0365 U	0.0577 U	0.0895 U	0.0435 U	0.043 U	0.0401 U	
1,2,3,6,7,8-HxCDF	0.15 U	0.127 U	0.047 U	0.0368 U	0.0276 U	0.0285 U	0.035 U	0.0544 U	0.0796 U	0.0413 U	0.0384 U	0.0385 U	
2,3,4,6,7,8-HxCDF	0.172 U	0.151 U	0.0513 U	0.0415 U	0.0284 U	0.0318 U	0.038 U	0.0559 U	0.0922 U	0.0413 U	0.0419 U	0.0429 U	
1,2,3,7,8,9-HxCDF	0.183 U	0.161 U	0.0624 U	0.0514 U	0.036 U	0.0391 U	0.0495 U	0.0718 U	0.118 U	0.0514 U	0.0544 U	0.0551 U	
1,2,3,4,6,7,8-HpCDF	0.174 U	0.165 U	0.242 U	0.0975 U	0.0938 U	0.082 U	0.172 U	0.17 U	0.12 U	0.107 U	0.109 U	0.0869 U	
1,2,3,4,7,8,9-HpCDF	0.201 U	0.186 U	0.34 U	0.125 U	0.128 U	0.114 U	0.177 U	0.137 U	0.164 U	0.149 U	0.154 U	0.116 U	
OCDF	0.333 U	0.285 U	0.367 U	0.273 U	0.302 U	0.244 U	0.229 U	0.171 U	0.61 U	0.63 U	0.27 U	0.178 U	
Total Dioxin/Furan TEQ 1998 (Mammal)	0.050374	0.042152	0.055957	0.021537	0.048727	0.018752	0.023488	0.027132	0.027039	0.024526	0.050164	0.053364	
Resin Acids (µg/kg) (WW)													
Linoleic Acid	61000	59000	39000	50000	61000	44000	44000	61000	36000	42000	39000	37000	
Oleic Acid/Linolenic Acid	260000	250000	150000	180000	220000	170000	170000	230000	130000	160000	150000	140000	
Pimaric acid	25 J	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
Isopimaric acid	1600 UJ	1500 UJ	1100 U	960 U	1200 U	970 U	950 U	1200 U	930 U	960 U	880 U	1100 U	
Dehydroabietic acid	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
Abietic acid	30 UJ	30 UJ	30 U	30 U	30 U	30 UJ	30 U						
9,10-Dichlorostearic Acid	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U	
14-Chlorodehydroabietic acid	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
12-Chlorodehydroabietic acid	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
Dichlorodehydroabietic acid	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
Retene (µg/kg) (WW)													
Retene	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
beta-Sitosterol (µg/kg) (WW)													
beta-Sitosterol	25000 J	18000 J	32000 J	16000 J	38000 J	40000 J	34000 J	37000 J	28000 J	33000 J	30000 J	32000 J	
Phenol (µg/kg) (WW)													
2,4,5-Trichlorophenol	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
2,4,6-Trichlorophenol	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
2,3,4,6-Tetrachlorophenol	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	
Pentachlorophenol	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	
3,4,5-Trichloroguaiacol	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
3,4,6-Trichloroguaiacol	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	
4,5,6-Trichloroguaiacol	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	30 UJ	
Tetrachloroguaiacol	30 U	30 U	30 U	30 U	30								

Table 2
Summary of Chemical and Conventional Analysis on a Wet-Weight Basis

Sample Category Station Location: Sample Identification:: Sample Date: Sample matrix:	2007 Bivalve Study LGP-13 LGP-13-CB-1 5/11/2007 Tissue	2007 Bivalve Study LGP-13 LGP-13-CB-2 5/11/2007 Tissue	2007 Bivalve Study SR-REF SR-REF-CB-1 5/11/2007 Tissue	2007 Bivalve Study SR-REF SR-REF-CB-2 5/10/2007 Tissue
Conventionals (%)				
Lipids	1.5	1.6	1.7	1.8
Total solids	11.7	12.1	11.9	13.8
Dioxin/Furan (ng/kg) (WW)				
2,3,7,8-TCDD	0.0491 U	0.0275 U	0.048 U	0.0518 U
1,2,3,7,8-PeCDD	0.0647 U	0.103 U	0.0821 U	0.0561 U
1,2,3,4,7,8-HxCDD	0.171 U	0.199 J	0.178 U	0.174 U
1,2,3,6,7,8-HxCDD	0.171 U	0.0763 U	0.286 U	0.124 U
1,2,3,7,8,9-HxCDD	0.101 U	0.0759 U	0.328 U	0.128 U
1,2,3,4,6,7,8-HpCDD	0.394 J	0.319 J	0.302 J	0.378 J
OCDD	1.99 J	1.89 J	1.59 J	1.52 J
2,3,7,8-TCDF	0.409	0.409	0.287 J	0.312 J
1,2,3,7,8-PeCDF	0.0526 U	0.0899 U	0.121 U	0.066 U
2,3,4,7,8-PeCDF	0.0456 U	0.0743 U	0.105 U	0.0596 U
1,2,3,4,7,8-HxCDF	0.0489 U	0.0437 U	0.0217 U	0.0334 U
1,2,3,6,7,8-HxCDF	0.0461 U	0.0365 U	0.0205 U	0.0309 U
2,3,4,6,7,8-HxCDF	0.0529 U	0.0388 U	0.0232 U	0.0346 U
1,2,3,7,8,9-HxCDF	0.0625 U	0.0473 U	0.0296 U	0.0448 U
1,2,3,4,6,7,8-HpCDF	0.171 U	0.17 U	0.185 U	0.174 U
1,2,3,4,7,8,9-HpCDF	0.0765 U	0.0995 U	0.246 U	0.114 U
OCDF	0.193 U	0.246 U	0.351 U	0.245 U
Total Dioxin/Furan TEQ 1998 (Mammal)	0.045039	0.064179	0.031879	0.035132
Resin Acids (µg/kg) (WW)				
Linoleic Acid	46000	60000	41000	58000
Oleic Acid/Linolenic Acid	180000	220000	140000	220000
Pimaric acid	30 U	30 U	30 U	30 U
Isopimaric acid	1200 U	1500 UJ	1100 U	1300 UJ
Dehydroabietic acid	30 U	30 U	30 U	30 U
Abietic acid	30 U	30 U	30 U	30 U
9,10-Dichlorostearic Acid	40 U	40 U	40 U	40 U
14-Chlorodehydroabietic acid	30 U	30 U	30 U	30 U
12-Chlorodehydroabietic acid	30 U	30 U	30 U	30 U
Dichlorodehydroabietic acid	30 U	30 U	30 U	30 U
Retene (µg/kg) (WW)				
Retene	30 U	30 U	30 U	30 U
beta-Sitosterol (µg/kg) (WW)				
beta-Sitosterol	22000 J	33000 J	13000 UJ	24000 J
Phenol (µg/kg) (WW)				
2,4,5-Trichlorophenol	30 U	30 U	30 U	30 U
2,4,6-Trichlorophenol	30 U	30 U	30 U	30 U
2,3,4,6-Tetrachlorophenol	30 UJ	30 UJ	30 UJ	30 UJ
Pentachlorophenol	30 UJ	30 UJ	30 UJ	30 UJ
3,4,5-Trichloroguaiacol	30 U	30 U	30 U	30 U
3,4,6-Trichloroguaiacol	30 U	30 U	30 U	30 U
4,5,6-Trichloroguaiacol	30 UJ	30 UJ	30 UJ	30 UJ
Tetrachloroguaiacol	30 U	30 U	30 U	30 U
3,4,5-Trichlorocatechol	30 UJ	30 UJ	30 UJ	30 UJ
3,4,6-Trichlorocatechol	30 U	30 U	30 U	30 U
Tetrachlorocatechol	30 UJ	30 UJ	30 UJ	30 UJ
Trichlorosyringol	30 U	30 U	30 U	30 U

Table 3
Summary of Detected Chemical Compounds in Bivalve Tissue Samples

Sample Category Station Location: Sample Identification: Sample Date: Sample Matrix:	2007 Bivalve Study BOT-A	2007 Bivalve Study BOT-B	2007 Bivalve Study CR-REF	2007 Bivalve Study LGP-01	2007 Bivalve Study LGP-01-CB-1	2007 Bivalve Study LGP-01	2007 Bivalve Study LGP-01-CB-2	2007 Bivalve Study LGP-01	2007 Bivalve Study LGP-06	2007 Bivalve Study LGP-06-CB-1	2007 Bivalve Study LGP-06	2007 Bivalve Study LGP-09	2007 Bivalve Study LGP-09-CB-1	2007 Bivalve Study LGP-09
Conventional (%)														
Lipids	1.6	1.5	1.2	1.3	1.7	1.3	1.1	1.5	1.1	1.5	1.1	1.1	1.1	1.1
Total solids	13.8	13.9	9.65	11.2	13.9	12.4	9.56	11.6	9.17	11.6	9.17	9.17	9.73	9.73
Dioxin/Furan (ng/kg) (WW)														
1,2,3,4,7,8-HxCDD	0.389 U	0.298 U	0.179 J	0.128 U	0.222 J	0.104 U	0.111 U	0.17 U	0.224 U	0.17 U	0.224 U	0.17 U	0.224 U	0.135 U
1,2,3,4,6,7,8-HpCDD	0.43 J	0.26 U	0.27 J	0.34 J	0.357 J	0.31 J	0.245 J	0.336 J	0.359 J	0.336 J	0.359 J	0.336 J	0.359 J	0.368 J
OCDD	2.74 J	2.52 J	1.57 J	1.37 J	1.57 J	1.52 J	1.38 J	1.72 J	1.49 J	1.72 J	1.49 J	1.72 J	1.49 J	1.46 J
2,3,7,8-TCDF	0.458	0.419	0.352	0.18 J	0.228 J	0.155 J	0.209 J	0.236 J	0.233 J	0.209 J	0.236 J	0.233 J	0.207 J	0.207 J
Total Dioxin/Furan TEQ 1998 (Mammal)	0.050374	0.042152	0.055957	0.021537	0.048727	0.018752	0.023488	0.027132	0.027039	0.027132	0.027039	0.027132	0.027039	0.024526
Resin Acids (µg/kg) (WW)														
Linoleic Acid	61000	59000	39000	50000	61000	44000	44000	61000	36000	36000	42000	42000	36000	42000
Oleic Acid/Linolenic Acid	260000	250000	150000	180000	220000	170000	170000	230000	130000	130000	160000	160000	130000	160000
Pimaric acid	25 J	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
beta-Sitosterol (µg/kg) (WW)														
beta-Sitosterol	25000 J	18000 J	32000 J	16000 J	38000 J	40000 J	34000 J	37000 J	28000 J	37000 J	28000 J	33000 J	33000 J	33000 J

Note:

WW = Wet weight

Bold = Detected

U = The compound was analyzed for, but was not detected ("Non-detect") at or above the method reporting limit/method detection limit.

J = The result is an estimated concentration that is less than the method reporting limit but greater than or equal to the method detection limit.

CR- REF = Clearwater Reference station

SR-REF = Snake River Reference station

BOT = Baseline, beginning of test bivalve samples

LGP = Lower Granite Pool

Dioxin/Furan TEQ is per section J, of permit ID0001163.

Table 3
Summary of Detected Chemical Compounds in Bivalve Tissue Samples

Sample Category Station Location: Sample Identification: Sample Date: Sample Matrix:	2007 Bivalve Study LGP-11 LGP-11-CB-1 5/12/2007 Tissue	2007 Bivalve Study LGP-11 LGP-11-CB-2 5/12/2007 Tissue	2007 Bivalve Study LGP-13 LGP-13-CB-1 5/11/2007 Tissue	2007 Bivalve Study LGP-13 LGP-13-CB-2 5/11/2007 Tissue	2007 Bivalve Study SR-REF SR-REF-CB-1 5/11/2007 Tissue	2007 Bivalve Study SR-REF SR-REF-CB-2 5/10/2007 Tissue
Conventional (%)						
Lipids	1.3	1.2	1.5	1.6	1.7	1.8
Total solids	9.92	9.83	11.7	12.1	11.9	13.8
Dioxin/Furan (ng/kg) (WW)						
1,2,3,4,7,8-HxCDD	0.192 J	0.186 J	0.171 U	0.199 J	0.178 U	0.174 U
1,2,3,4,6,7,8-HpCDD	0.274 J	0.252 UJ	0.394 J	0.319 J	0.302 J	0.378 J
OCDD	1.24 J	1.44 J	1.99 J	1.89 J	1.59 J	1.52 J
2,3,7,8-TCDF	0.281 J	0.321 J	0.409	0.409	0.287 J	0.312 J
Total Dioxin/Furan TEQ 1998 (Mammal)	0.050164	0.053364	0.045039	0.064179	0.031879	0.035132
Resin Acids (µg/kg) (WW)						
Linoleic Acid	39000	37000	46000	60000	41000	58000
Oleic Acid/Linolenic Acid	150000	140000	180000	220000	140000	220000
Pimaric acid	30 U					
beta-Sitosterol (µg/kg) (WW)						
beta-Sitosterol	30000 J	32000 J	22000 J	33000 J	13000 UJ	24000 J

Table 4
Statistical Summary of Bivalve Tissue Sample Results by Analyte

Chemical	Detection Frequency	Percent Qualified as Estimated	Result Average	Max Detect Result	Min Detect Result	Max MDL Limit	Min MDL Limit	Detected Standard Deviation
beta-Sitosterol (ug/kg)								
beta-Sitosterol	94%	100%	28400	40000	16000	5200	2600	7170
Conventionals (pct)								
Lipids	100%	0%	1.41	1.80	1.10	0.250	0.200	0.235
Total solids	100%	0%	11.5	13.9	9.17			1.72
Dioxin/Furans (ng/kg)								
1,2,3,4,6,7,8-HxCDD	88%	94%	0.325	0.430	0.245			0.0515
1,2,3,4,6,7,8-HxCDF	0%	0%	0.145					
1,2,3,4,7,8,9-HxCDF	0%	0%	0.158					
1,2,3,4,7,8-HxCDD	31%	31%	0.191	0.222	0.179			0.0165
1,2,3,4,7,8-HxCDF	0%	0%	0.0566					
1,2,3,6,7,8-HxCDD	0%	0%	0.169					
1,2,3,6,7,8-HxCDF	0%	0%	0.0524					
1,2,3,7,8,9-HxCDD	0%	0%	0.168					
1,2,3,7,8,9-HxCDF	0%	0%	0.0698					
1,2,3,7,8-PeCDD	0%	0%	0.103					
1,2,3,7,8-PeCDF	0%	0%	0.113					
2,3,4,6,7,8-HxCDF	0%	0%	0.0586					
2,3,4,7,8-PeCDF	0%	0%	0.100					
2,3,7,8-TCDD	0%	0%	0.0562					
2,3,7,8-TCDF	100%	69%	0.294	0.458	0.155			0.0939
OCDD	100%	100%	1.69	2.74	1.24			0.414
OCDF	0%	0%	0.308					
Phenols (ug/kg)								
2,3,4,6-Tetrachlorophenol	0%	100%	30.0			3.10	3.10	
2,4,5-Trichlorophenol	0%	0%	30.0			2.70	2.70	
2,4,6-Trichlorophenol	0%	0%	30.0			4.50	4.50	
3,4,5-Trichlorocatechol	0%	100%	30.0			23.0	23.0	
3,4,5-Trichloroguaiacol	0%	0%	33.3			4.10	3.90	
3,4,6-Trichlorocatechol	0%	0%	30.0			27.0	27.0	
3,4,6-Trichloroguaiacol	0%	0%	30.0			2.60	2.60	
4,5,6-Trichloroguaiacol	0%	100%	30.0			3.50	3.50	
Pentachlorophenol	0%	100%	30.0			6.10	6.10	
Tetrachlorocatechol	0%	100%	30.0			23.0	23.0	
Tetrachloroguaiacol	0%	0%	30.0			4.30	3.80	
Trichlorosyringol	0%	0%	30.0			4.30	4.30	
Resin Acid (ug/kg)								
12-Chlorodehydroabietic acid	0%	0%	30.0			4.80	4.80	
14-Chlorodehydroabietic acid	0%	0%	30.0			3.80	3.80	
3,4,5-Trichloroguaiacol	0%	0%	36.7			4.10	3.90	

Table 4
Statistical Summary of Bivalve Tissue Sample Results by Analyte

Chemical	Detection Frequency	Percent Qualified as Estimated	Result Average	Max Detect Result	Min Detect Result	Max MDL Limit	Min MDL Limit	Detected Standard Deviation
9,10-Dichlorostearic Acid	0%	0%	40.0			30.0	30.0	
Abietic acid	0%	19%	30.0			13.0	13.0	
Dehydroabietic acid	0%	0%	30.0			30.0	30.0	
Dichlorodehydroabietic acid	0%	0%	30.0			11.0	11.0	
Isopimaric acid	0%	25%	1150			1600	880	
Linoleic Acid	100%	0%	48600	61000	36000	6000	6000	9560
Oleic Acid/Linolenic Acid	100%	0%	186000	260000	130000	6000	6000	41100
Pimamic acid	6%	6%	29.7	25.0	25.0	21.0	21.0	0
Tetrachloroguaiacol	0%	0%	30.0			4.30	3.80	
Retene (ug/kg)								
Retene	0%	0%	30.0			16.0	16.0	

FIGURES

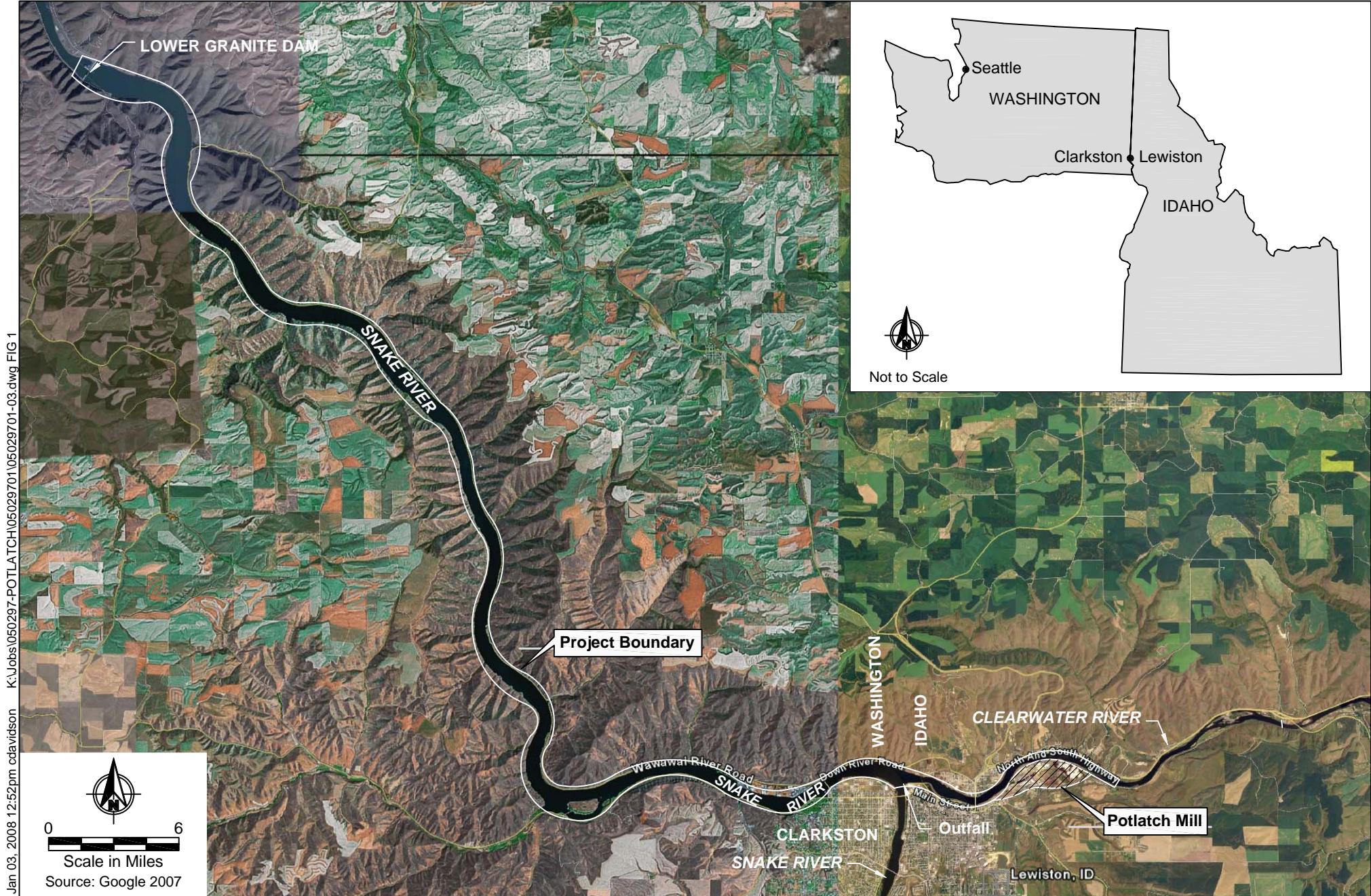
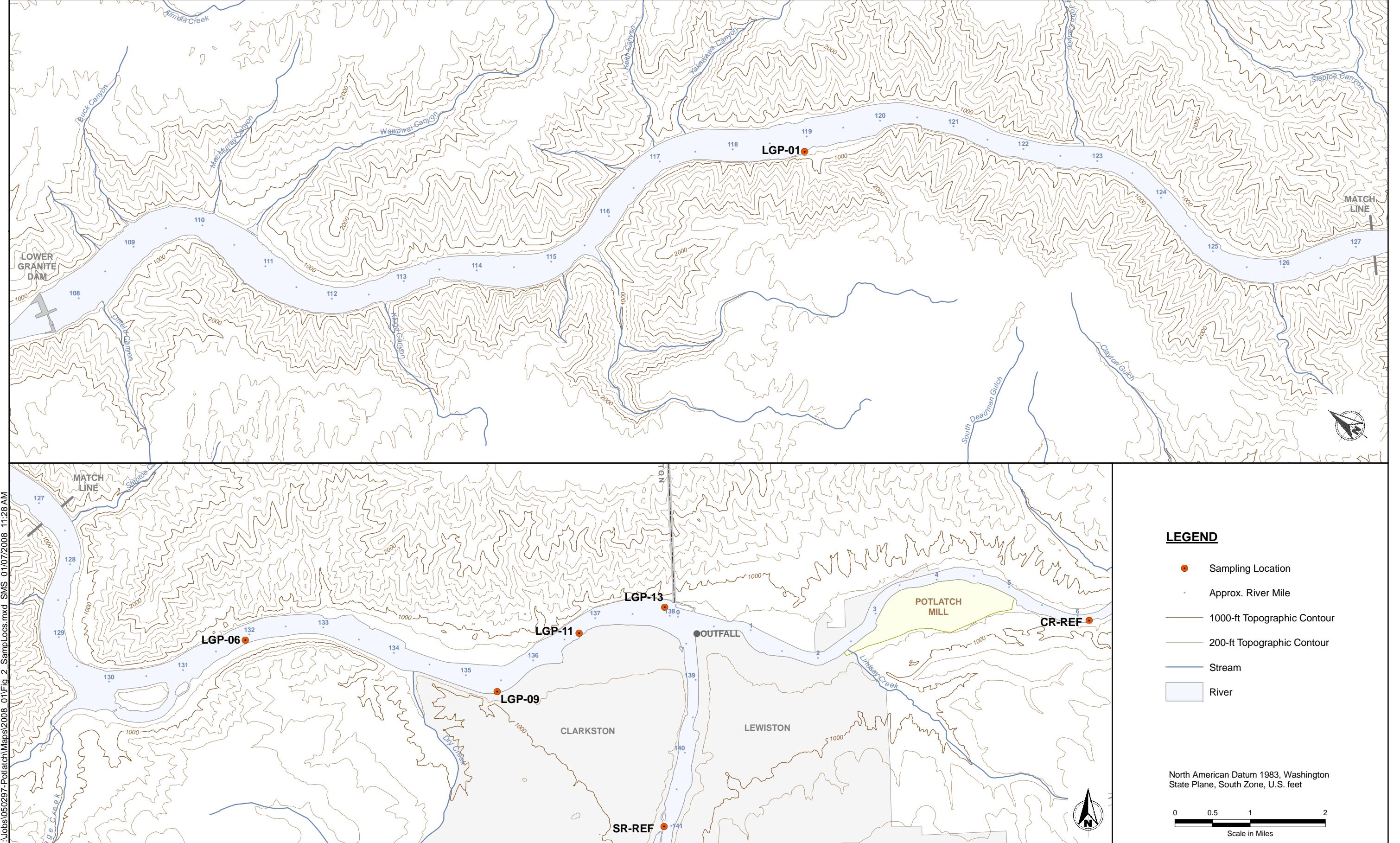


Figure 1
 Vicinity Map
 Potlatch Pulp and Paper Mill



APPENDIX A

CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA REPORTS

APPENDIX B

DATA VALIDATION REPORTS